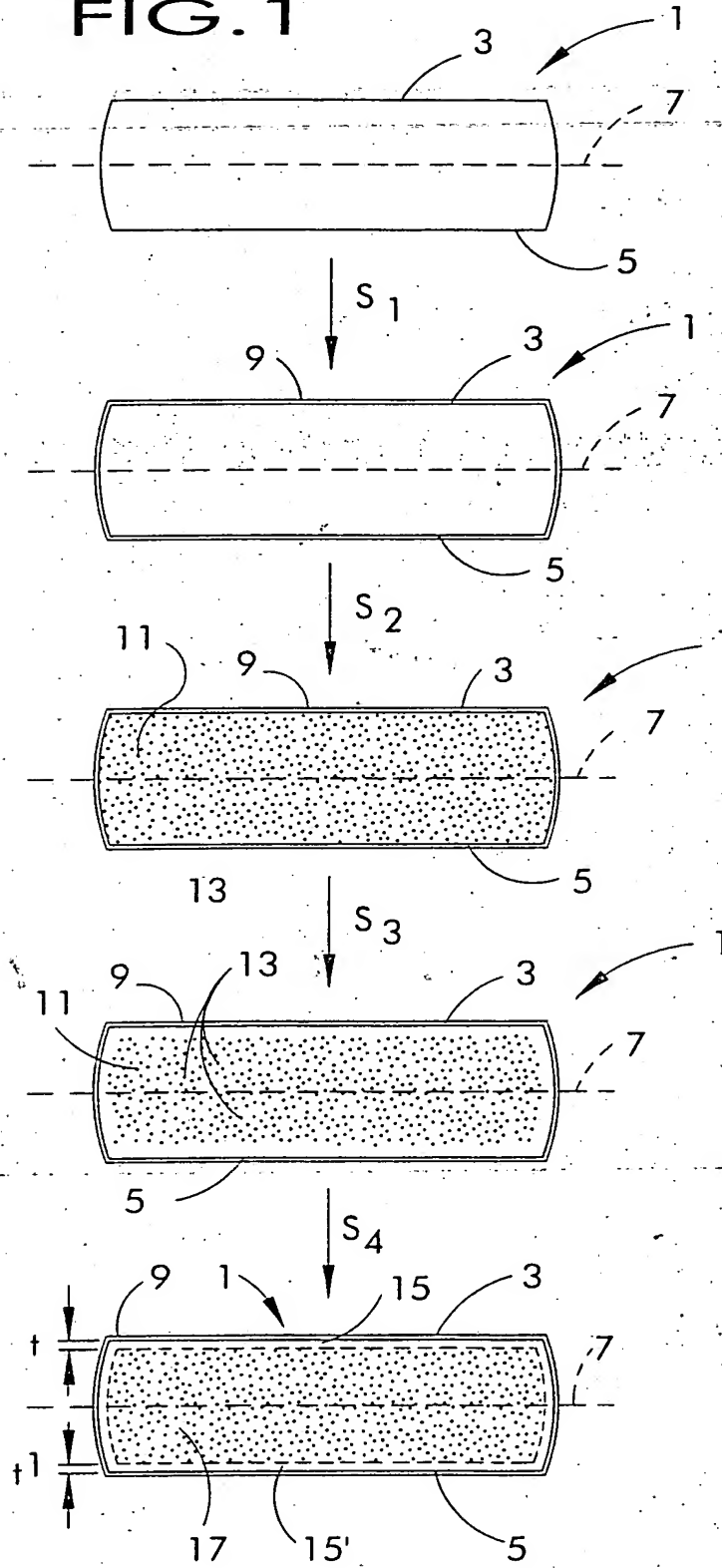


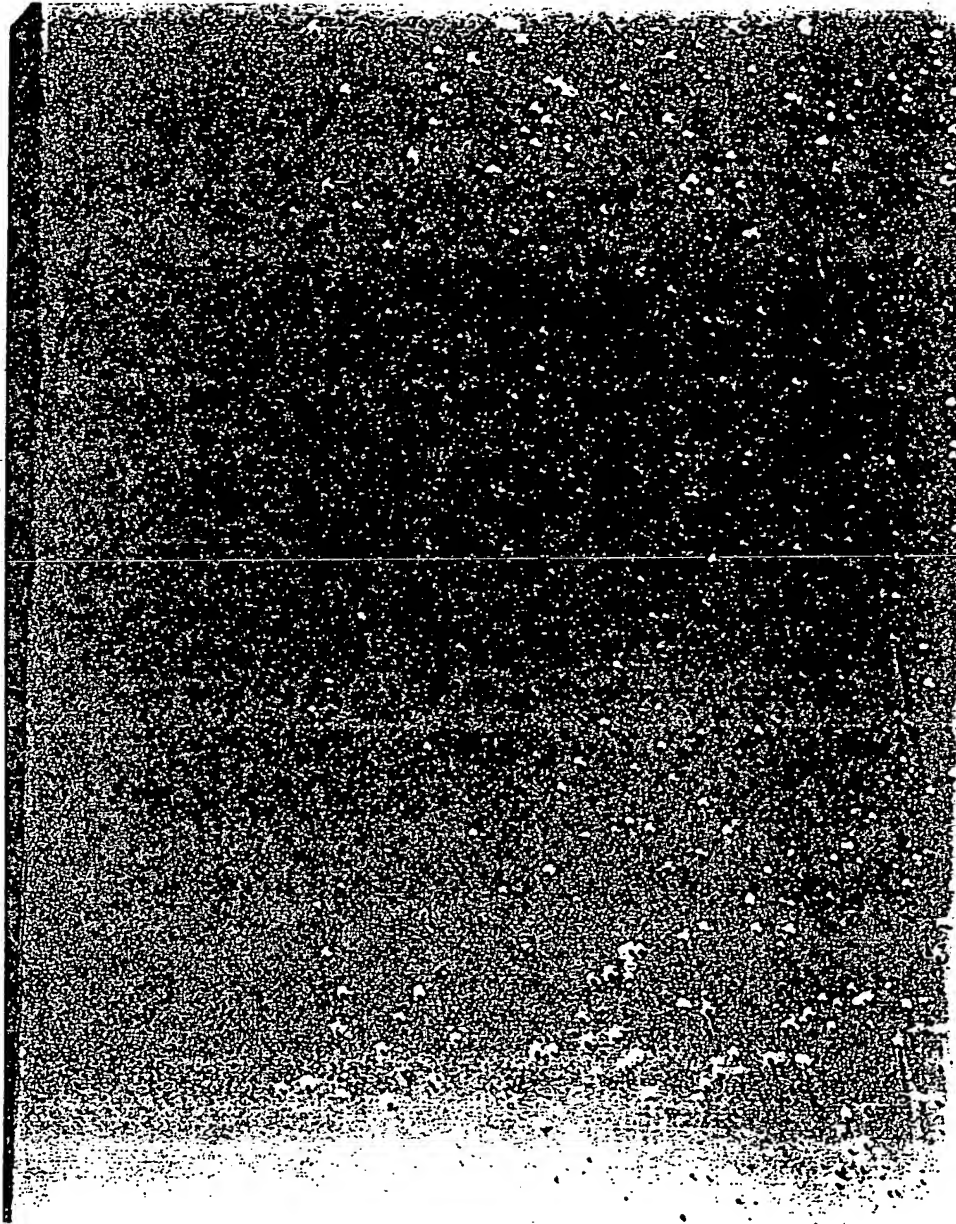
FIG. 1



20250104-48085001

205010-4803001

FIG. 2



20E0T0*4803E00T

FIG. 3

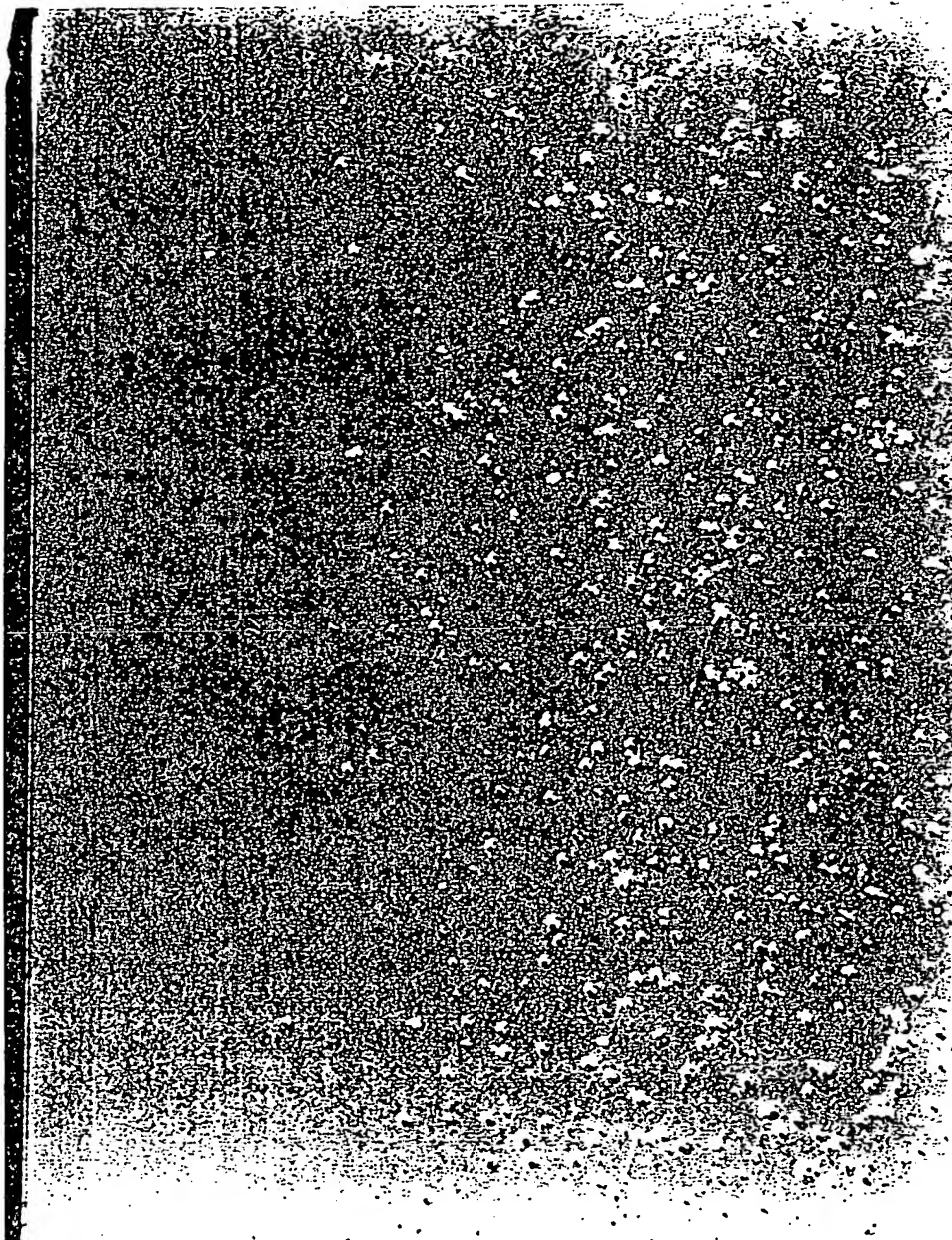
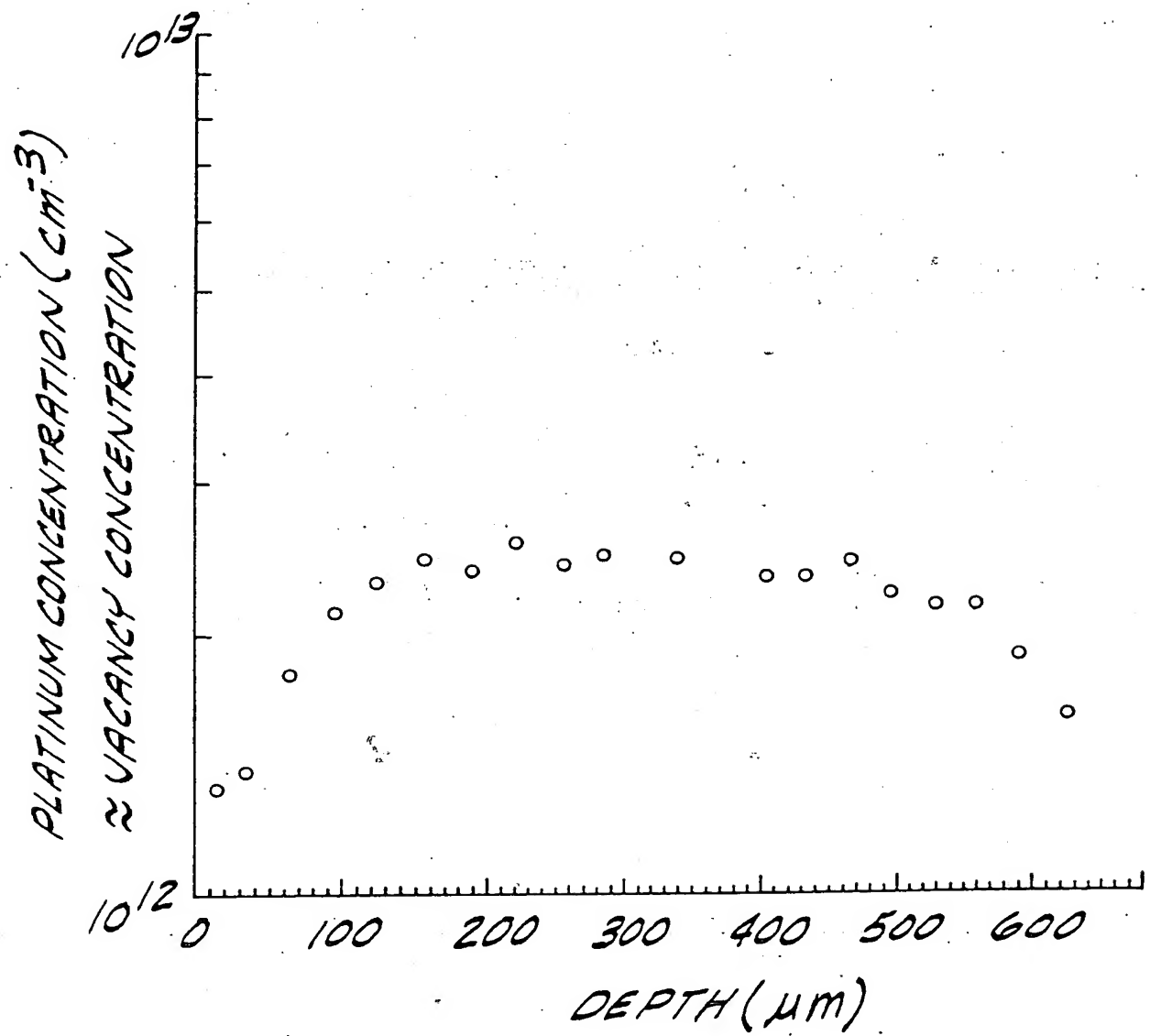
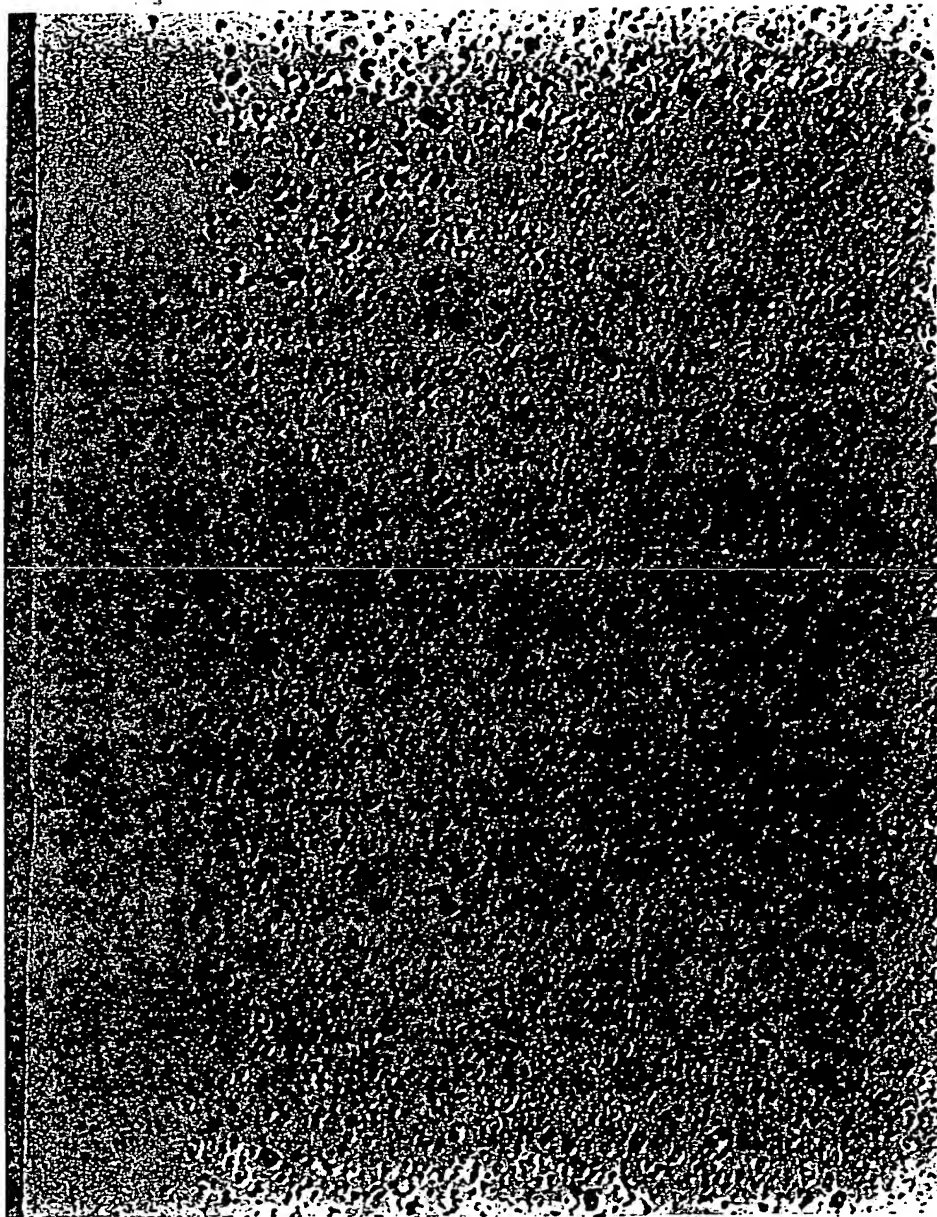


FIG. 5



2003004.010300

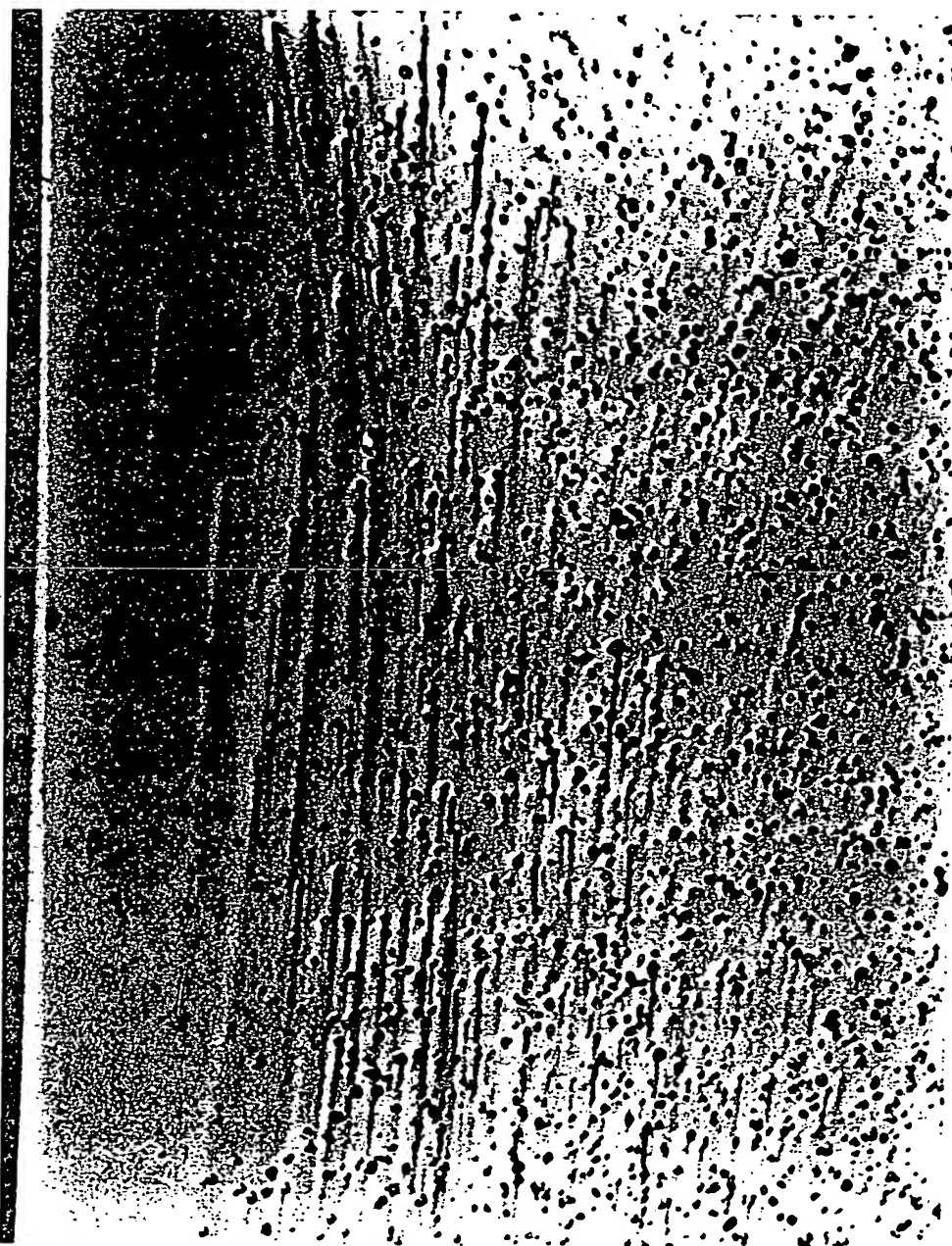
FIG. 6



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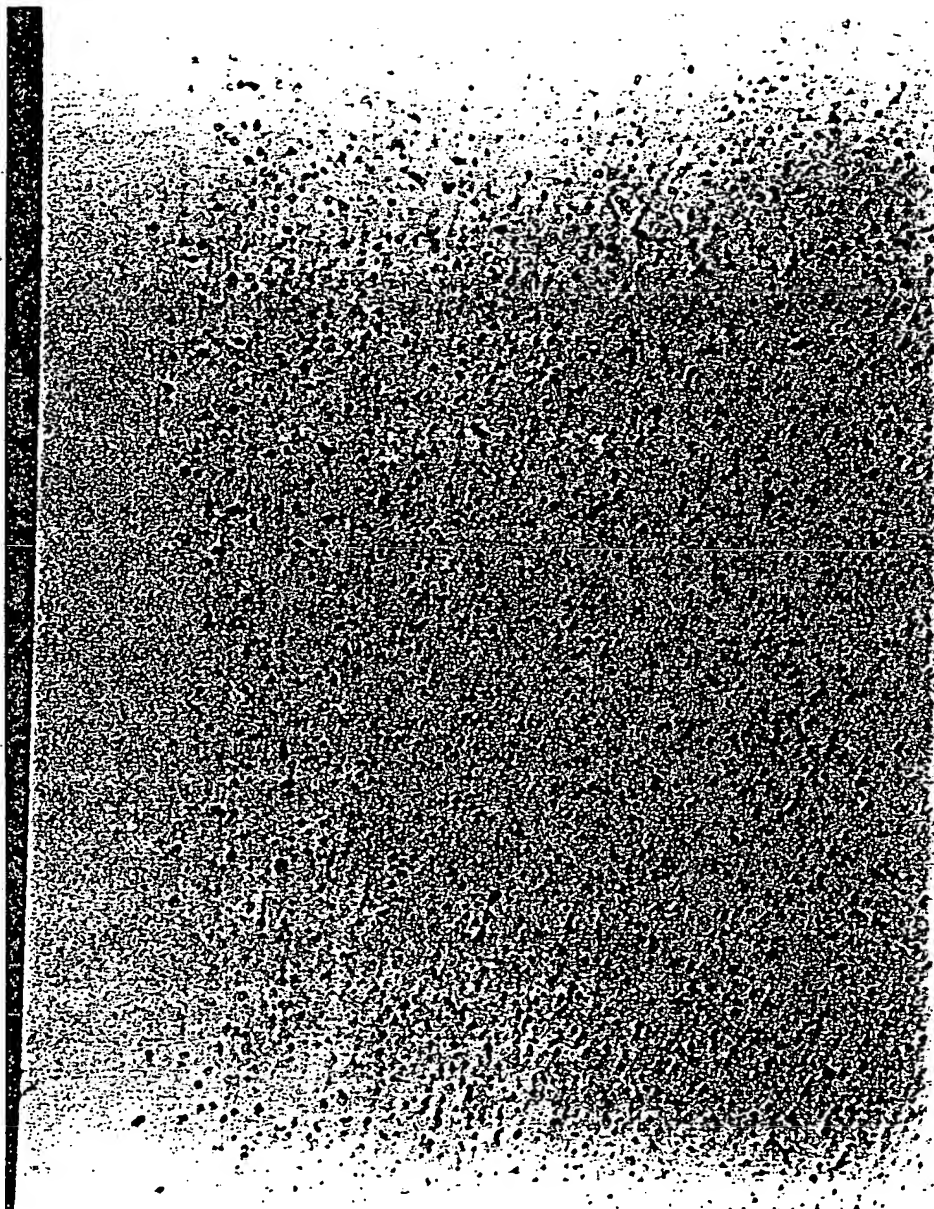
202004080000

FIG. 7



20030701 480800T

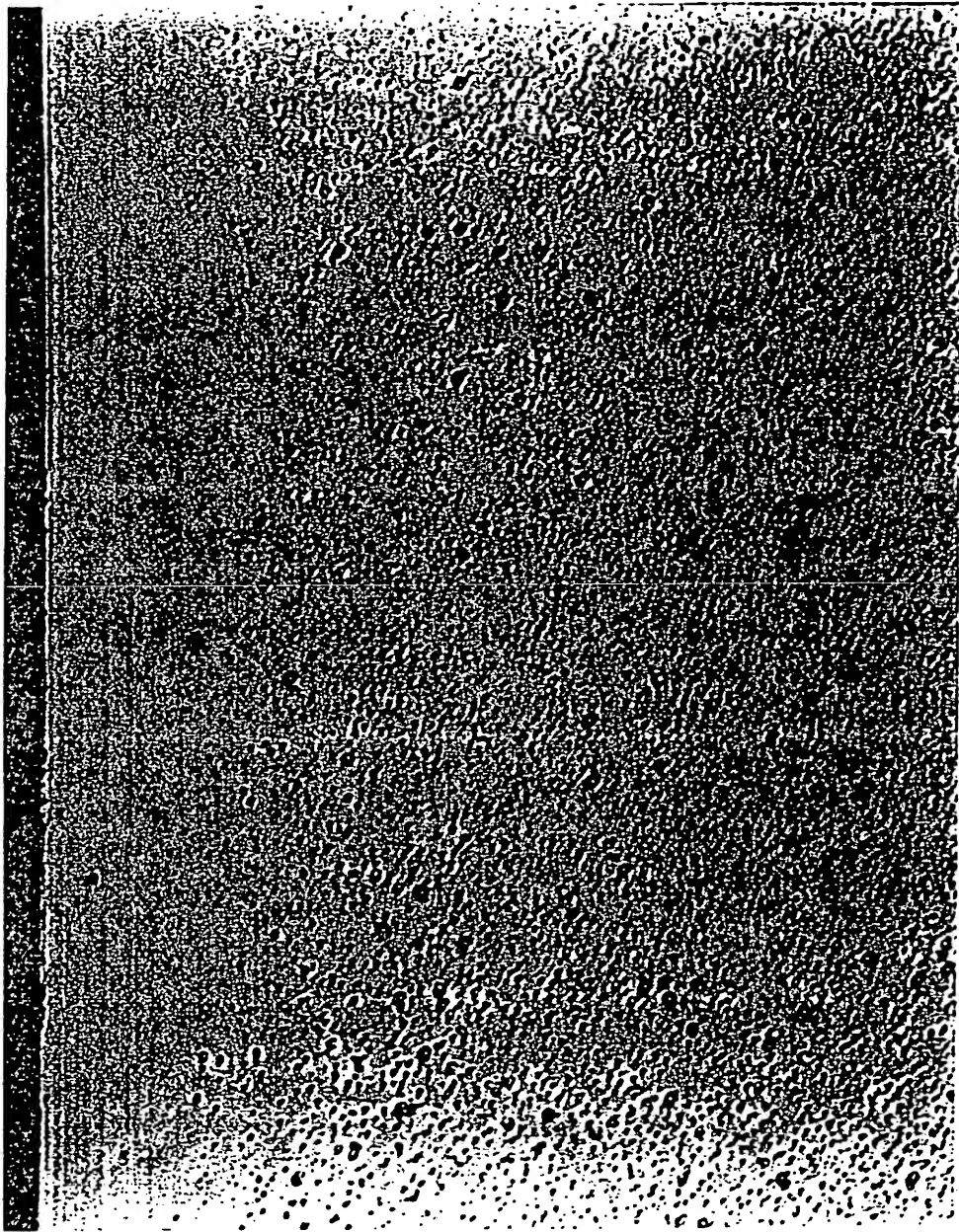
FIG. 8



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2003084.010300

FIG. 9



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FIG. 10

BMD DENSITY VS. OXYGEN PARTIAL PRESSURE

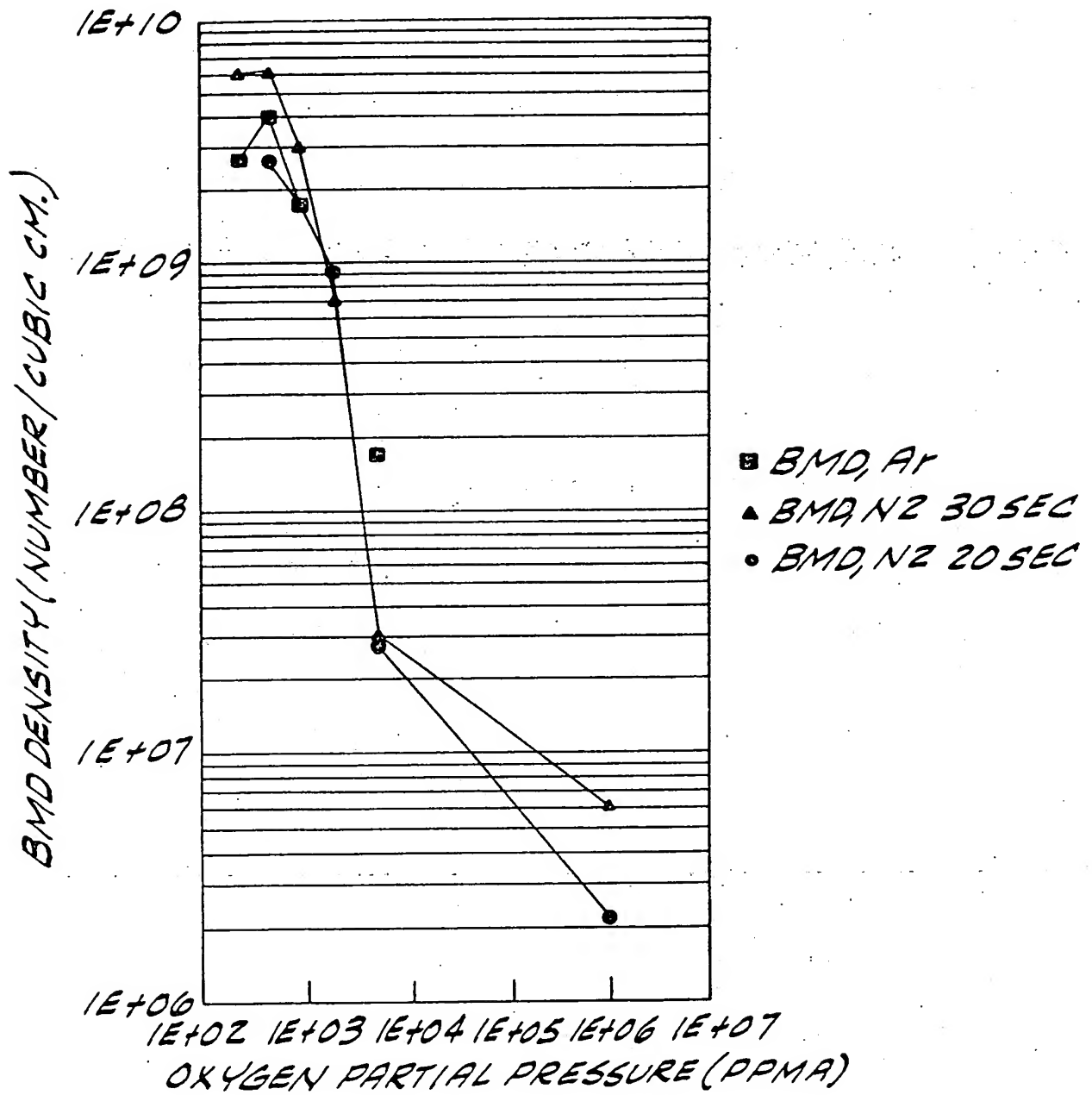


FIG.11

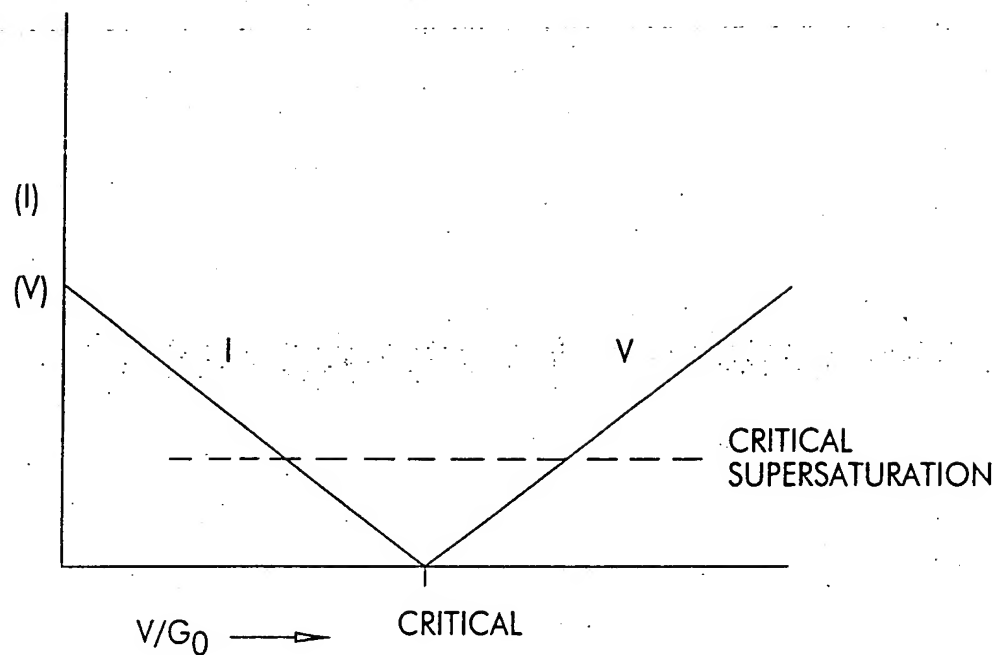


FIG.12

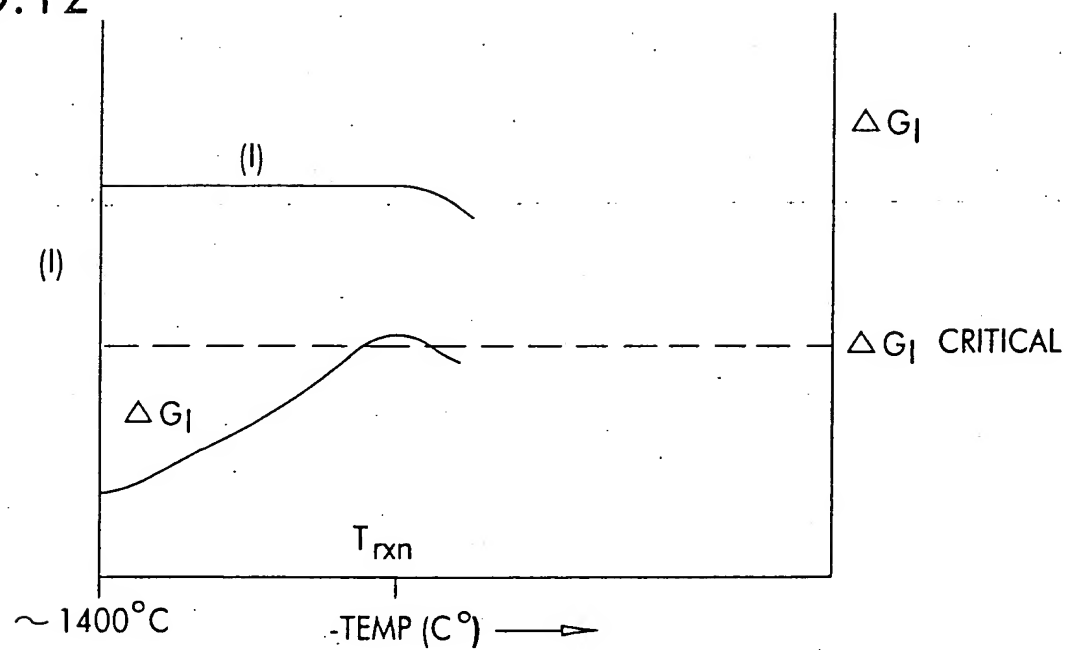


FIG.13

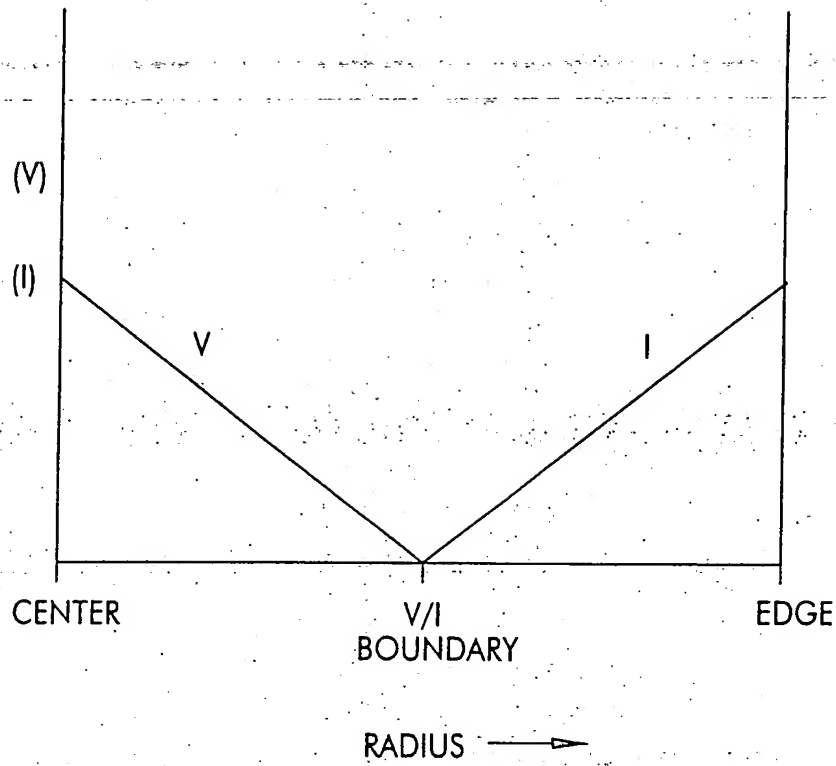


FIG.14

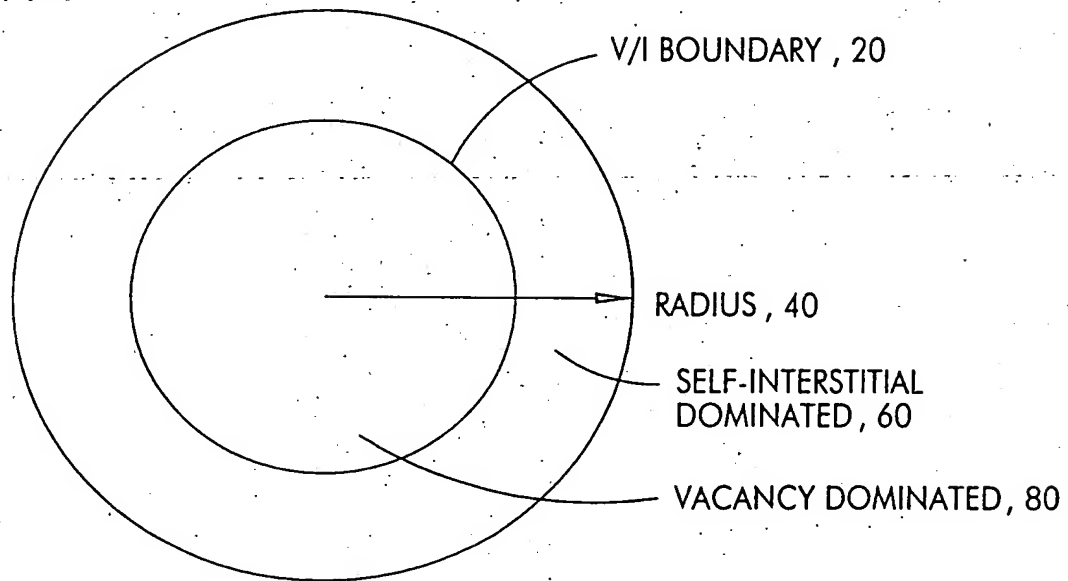
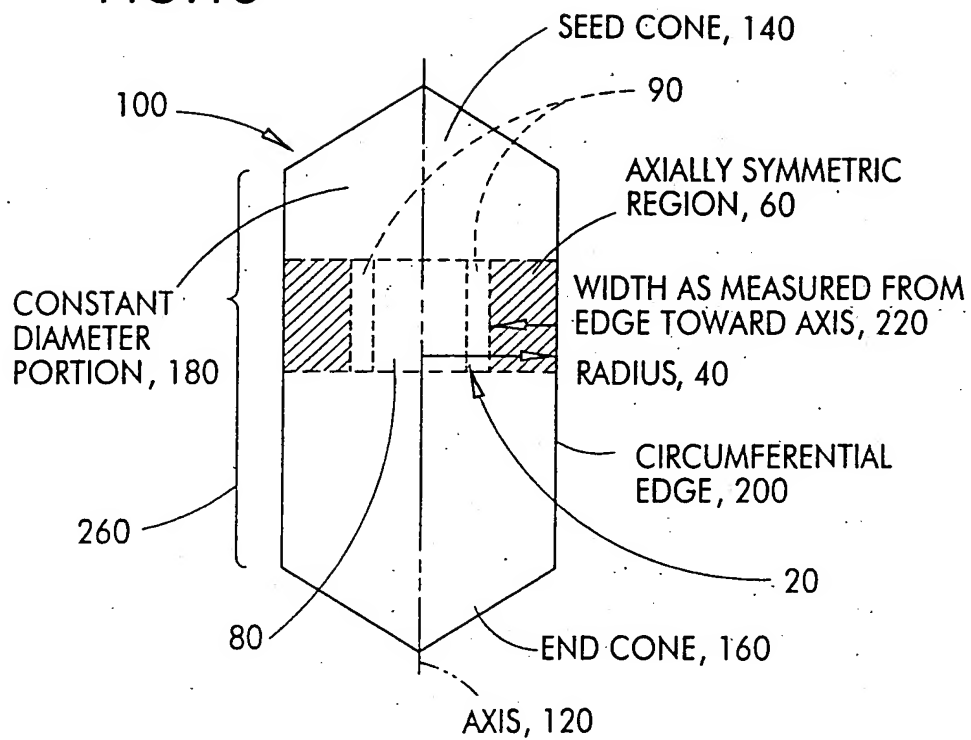


FIG. 15



202010148088001

FIG. 16

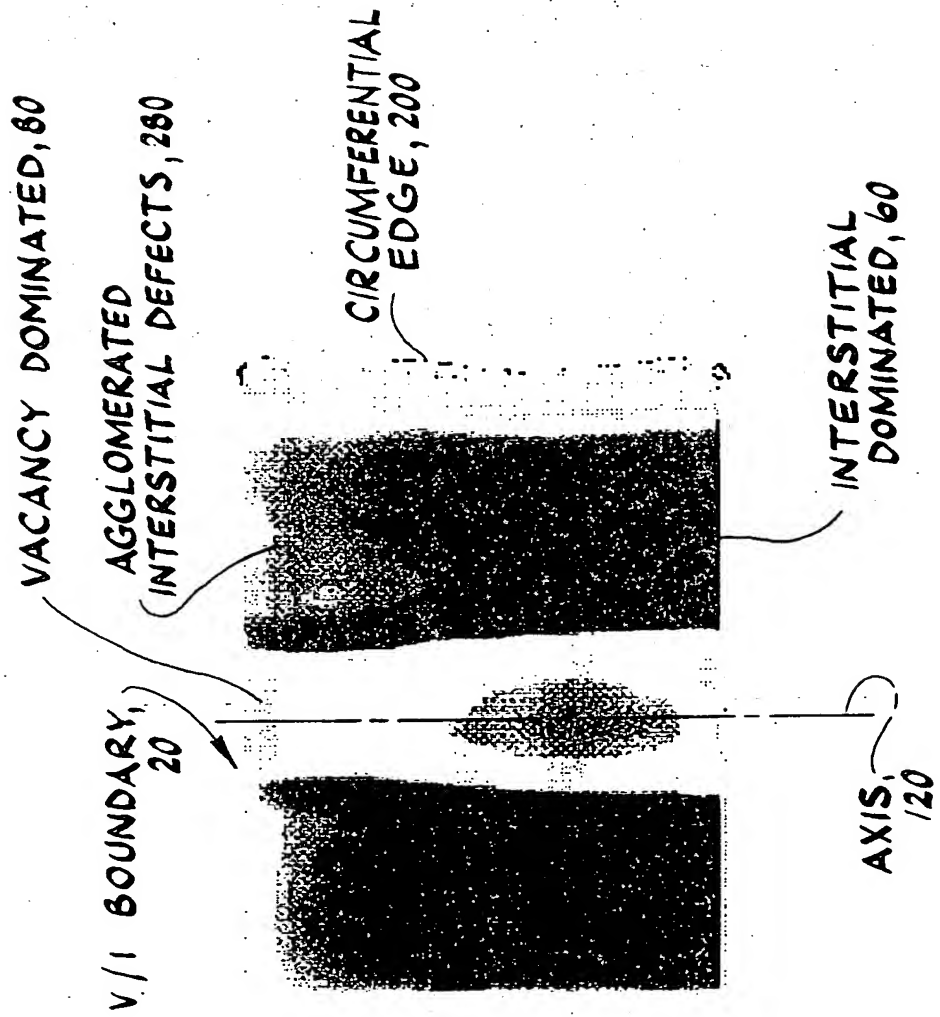


FIG. 17

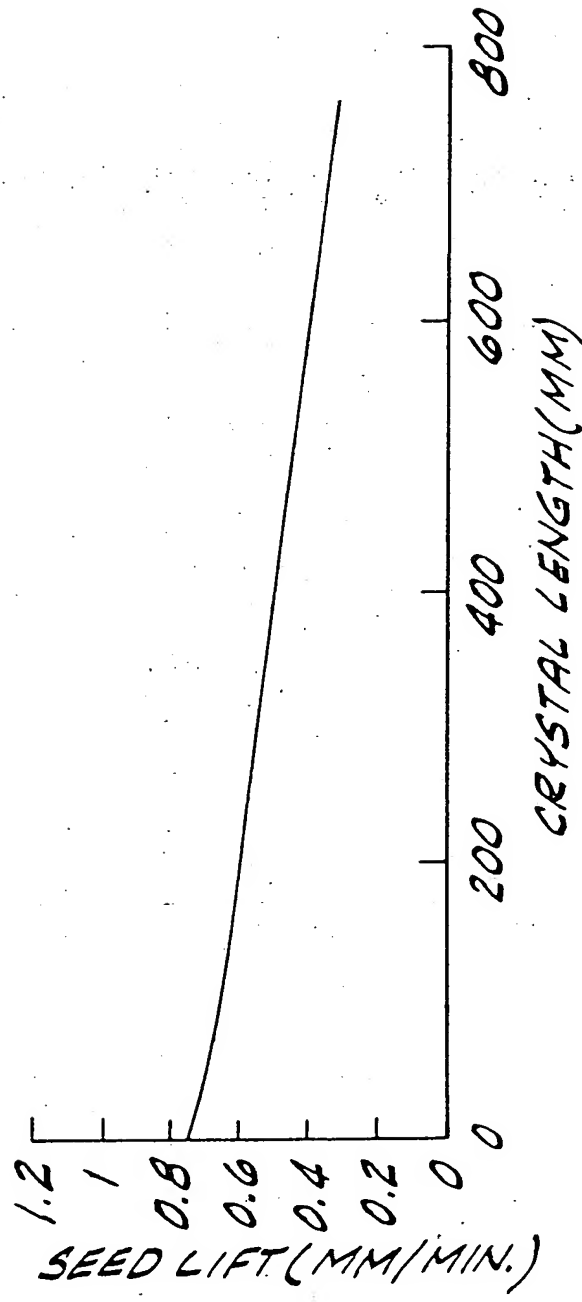


FIG. 18

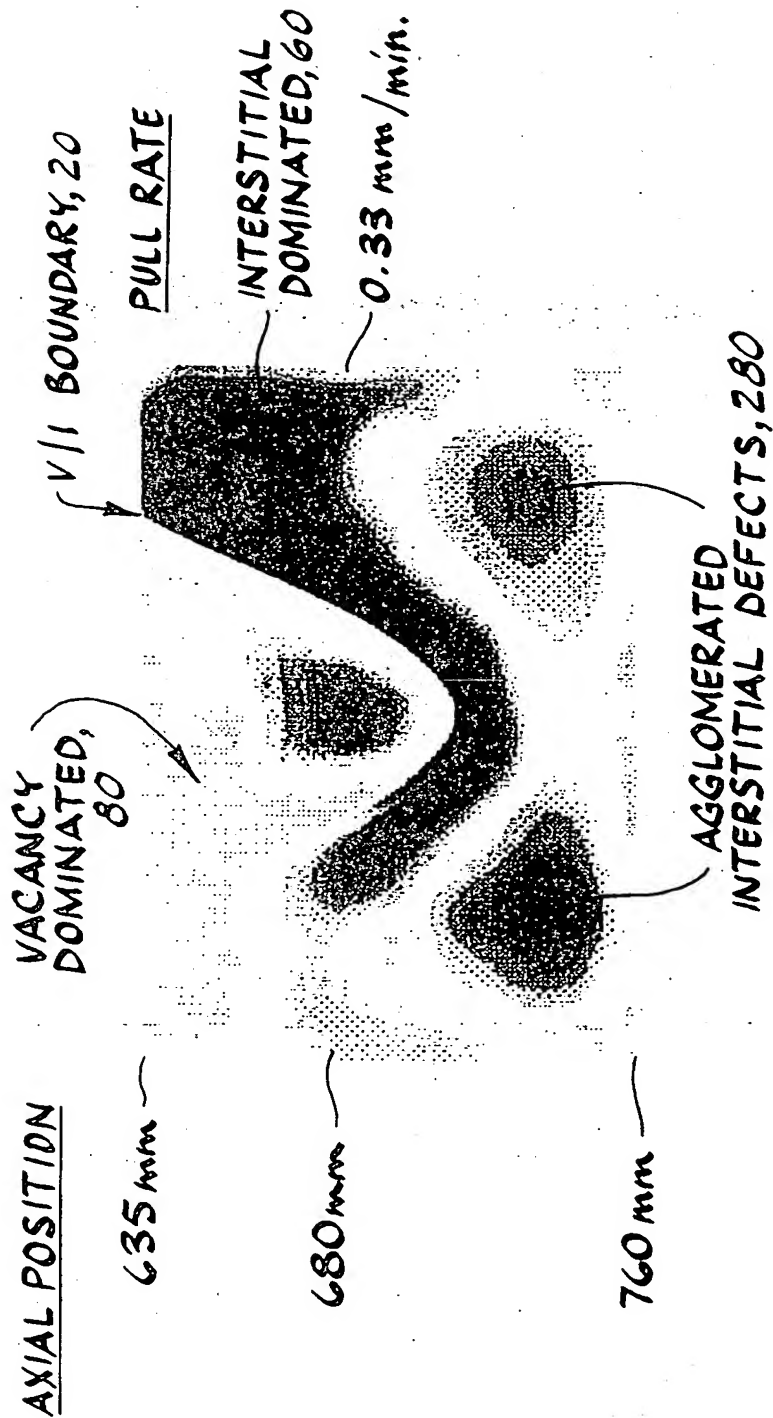


FIG. 19

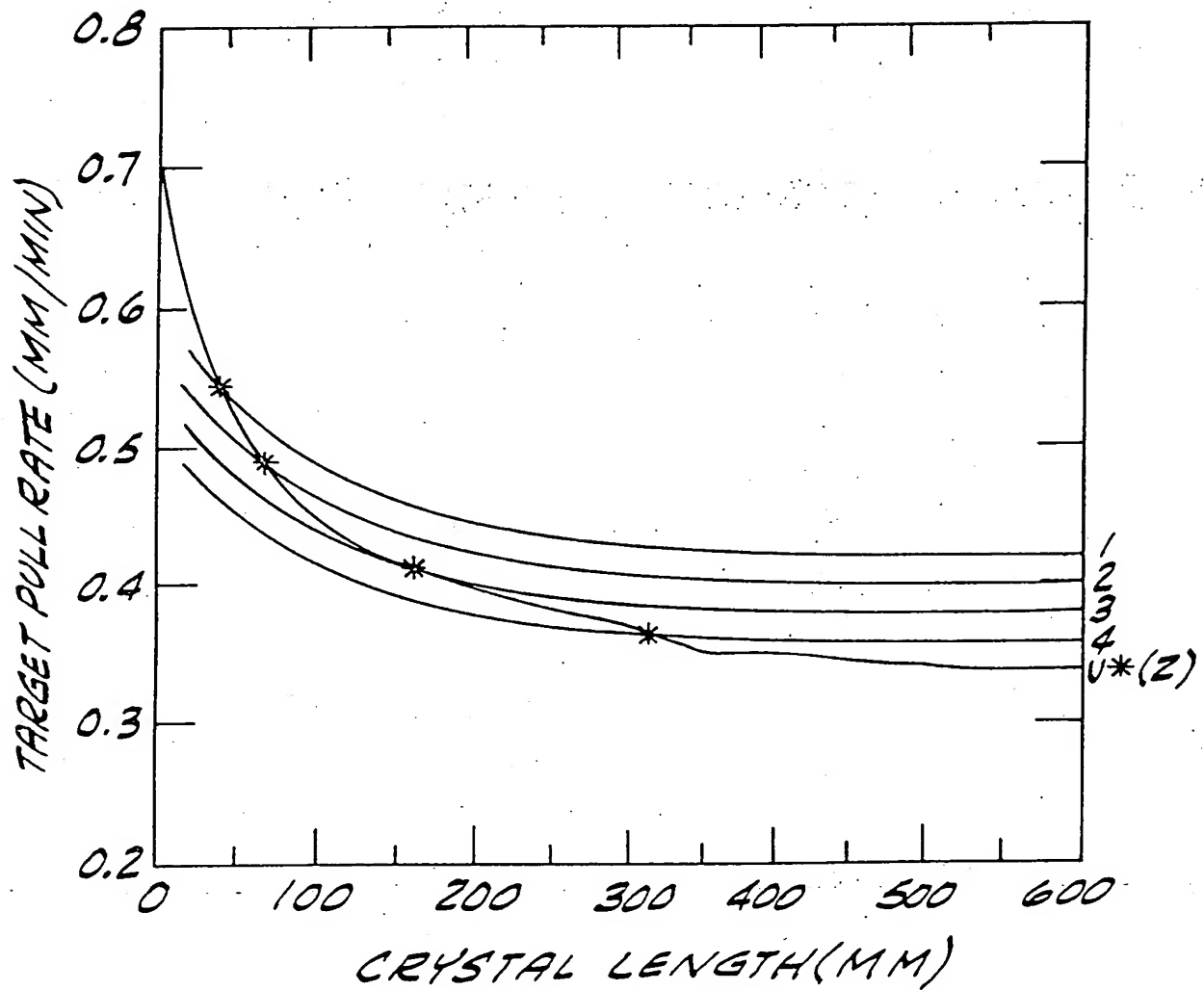


FIG. 20

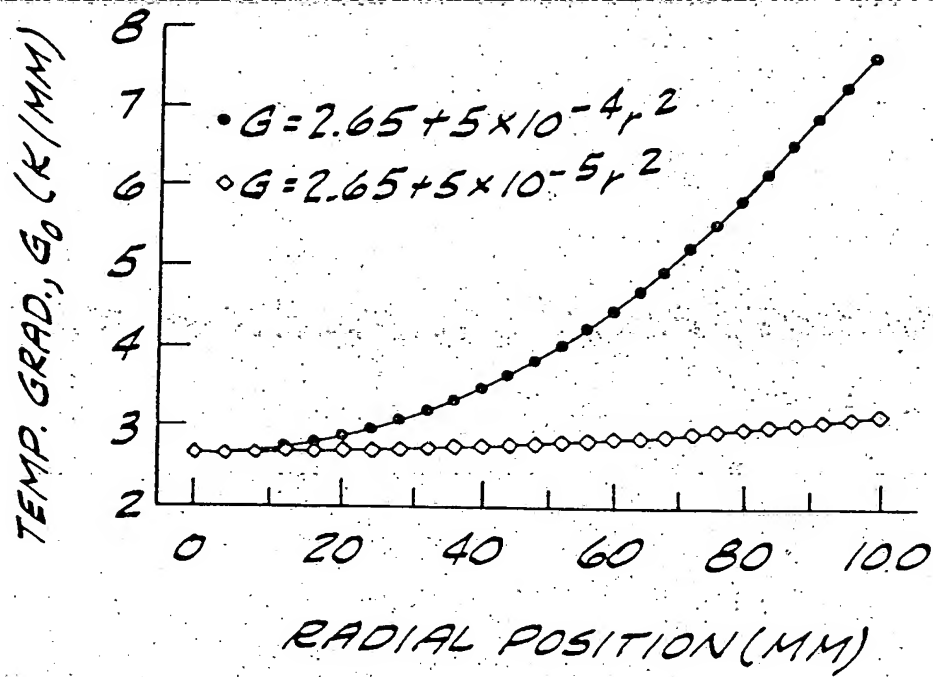
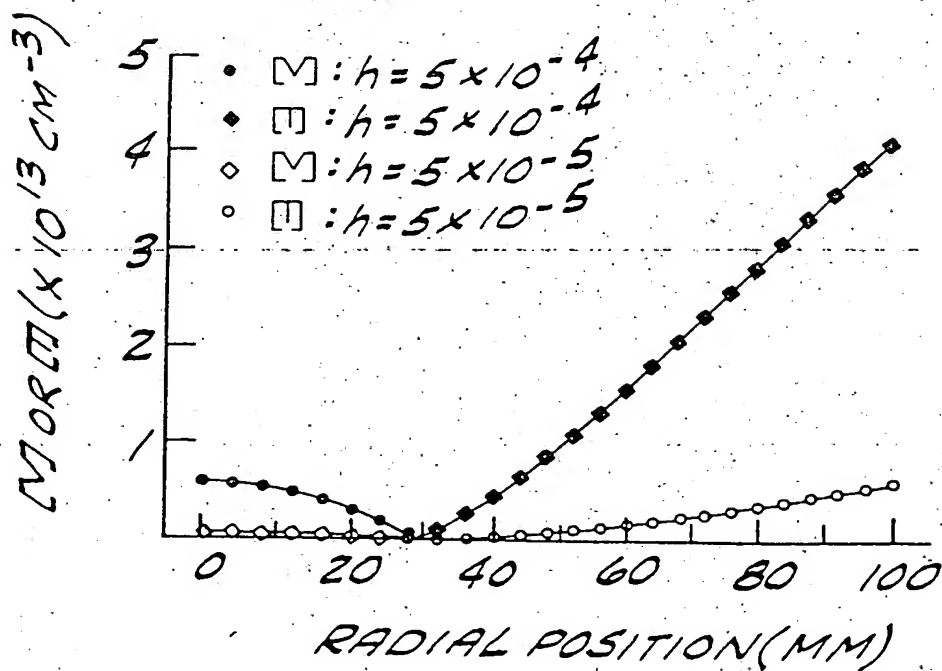


FIG. 21



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FIG. 22

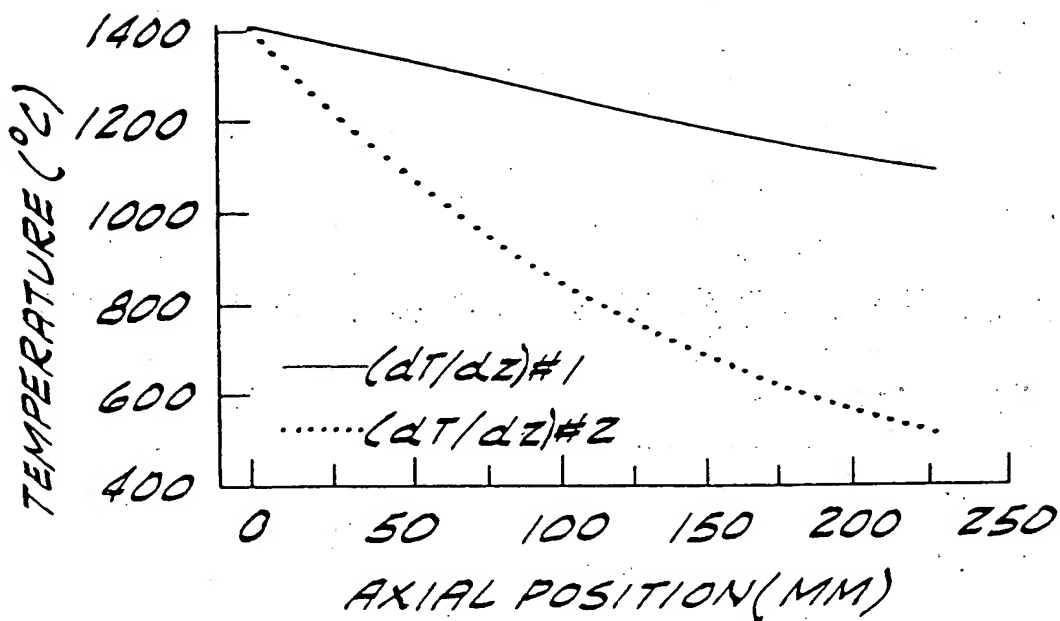


FIG. 23

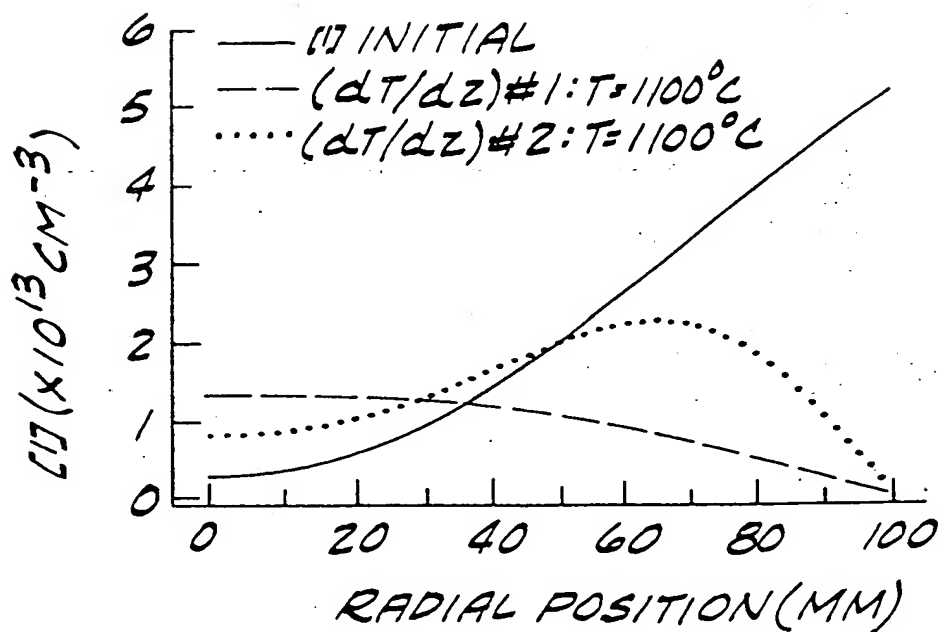


FIG. 24

SEED LIFT (mm/min.)

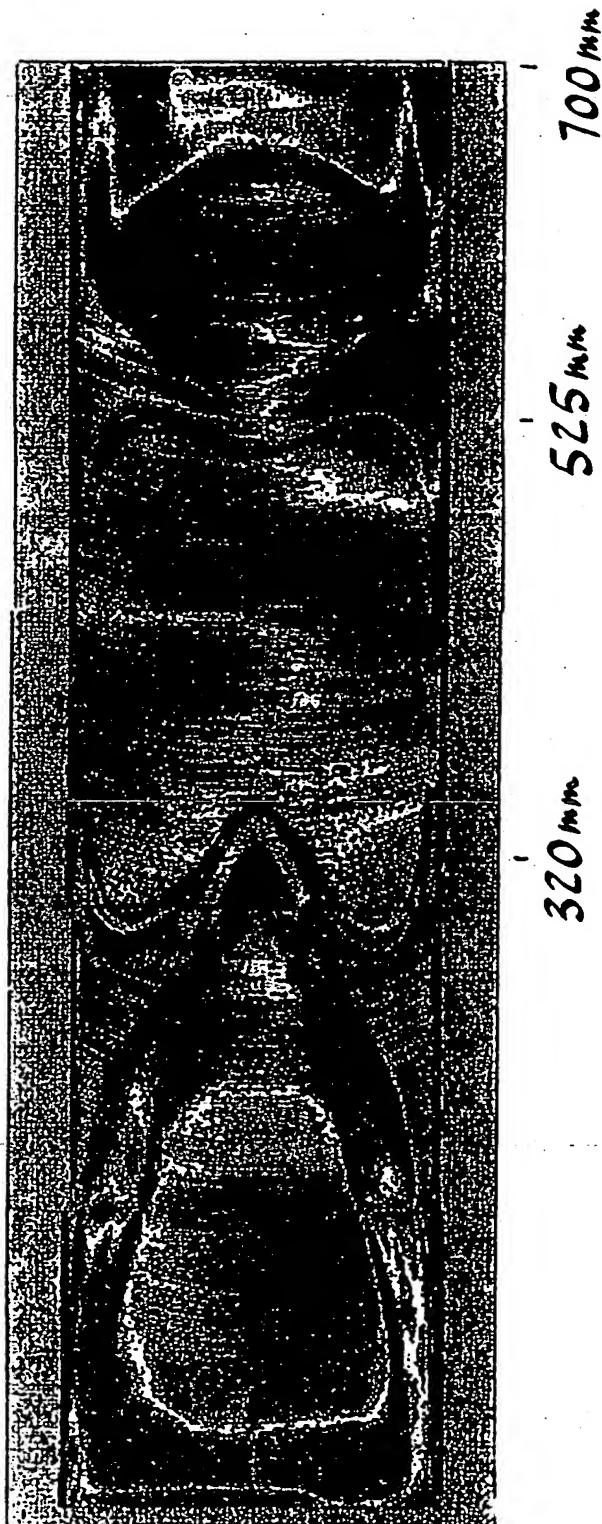
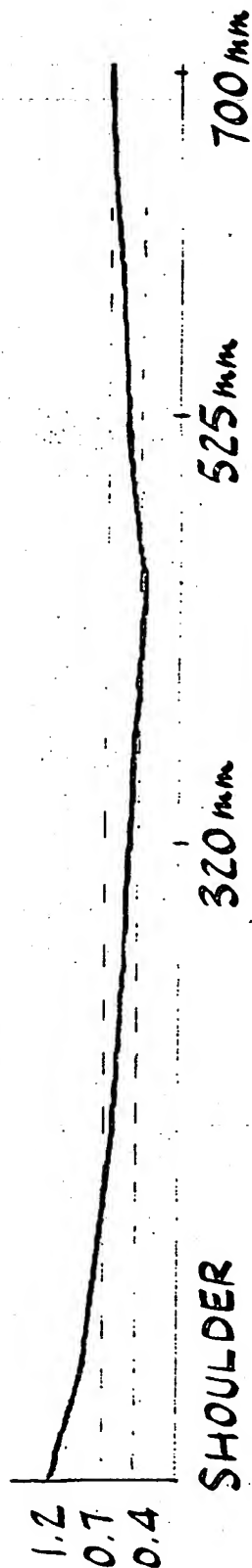
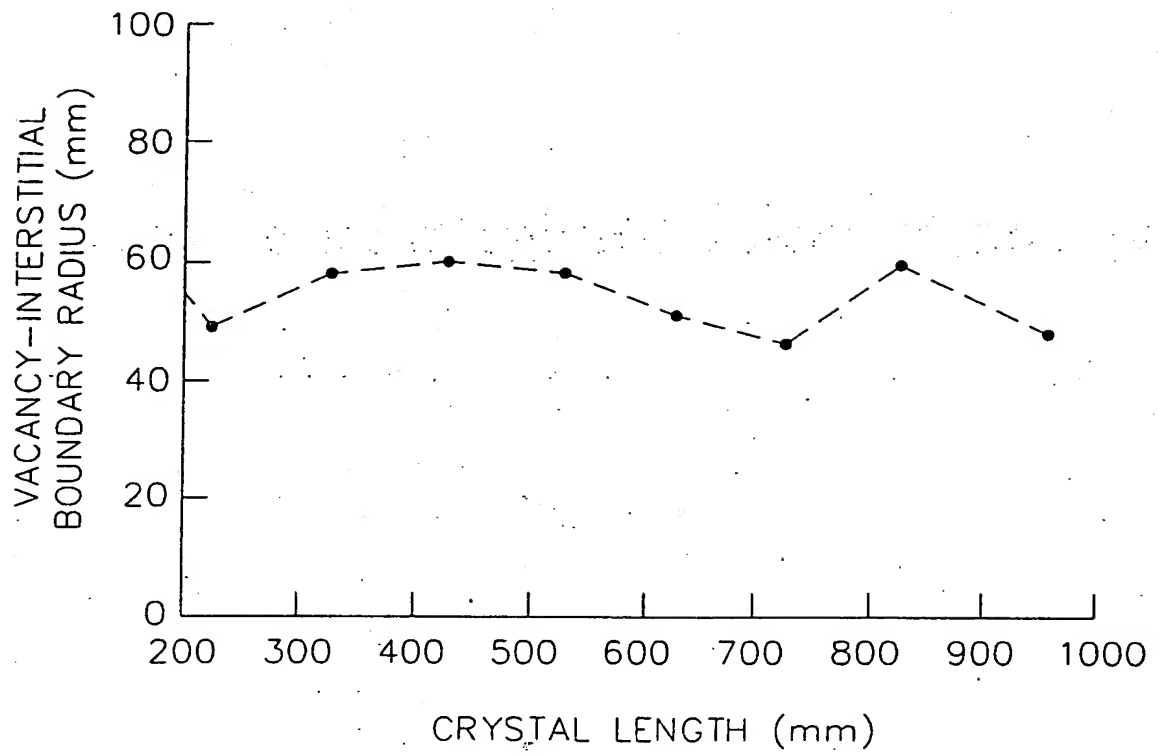
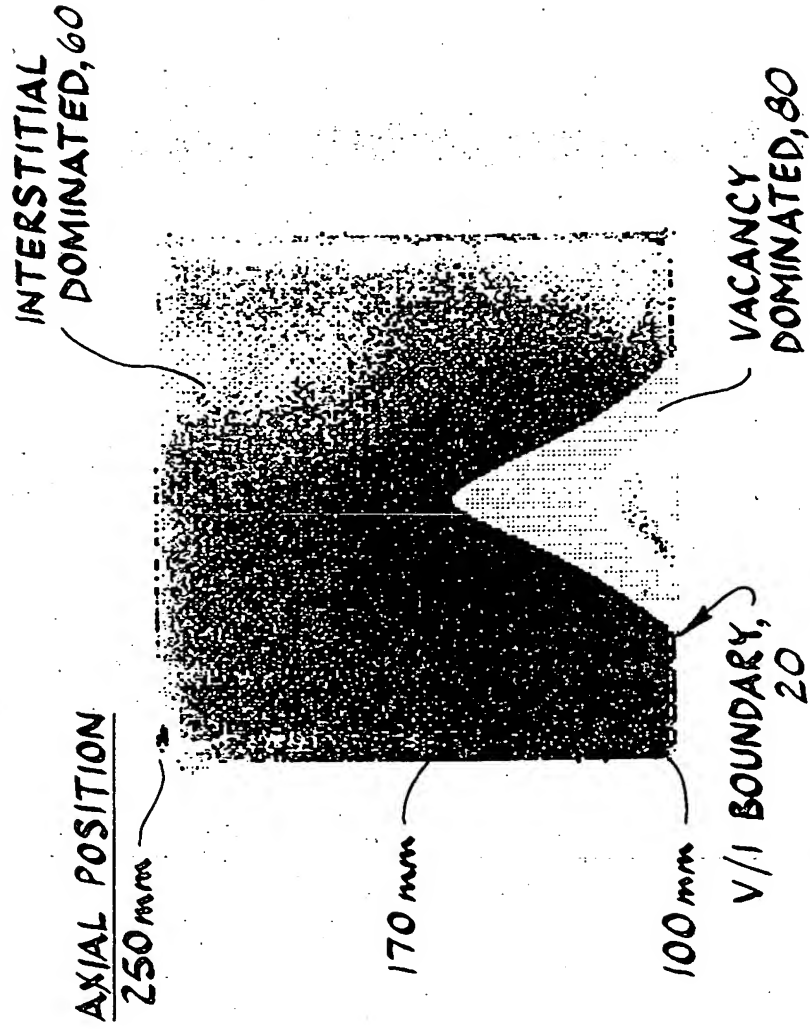


FIG. 25



20200701-000000

FIG. 26A



20250710 14:38:00

FIG. 26B

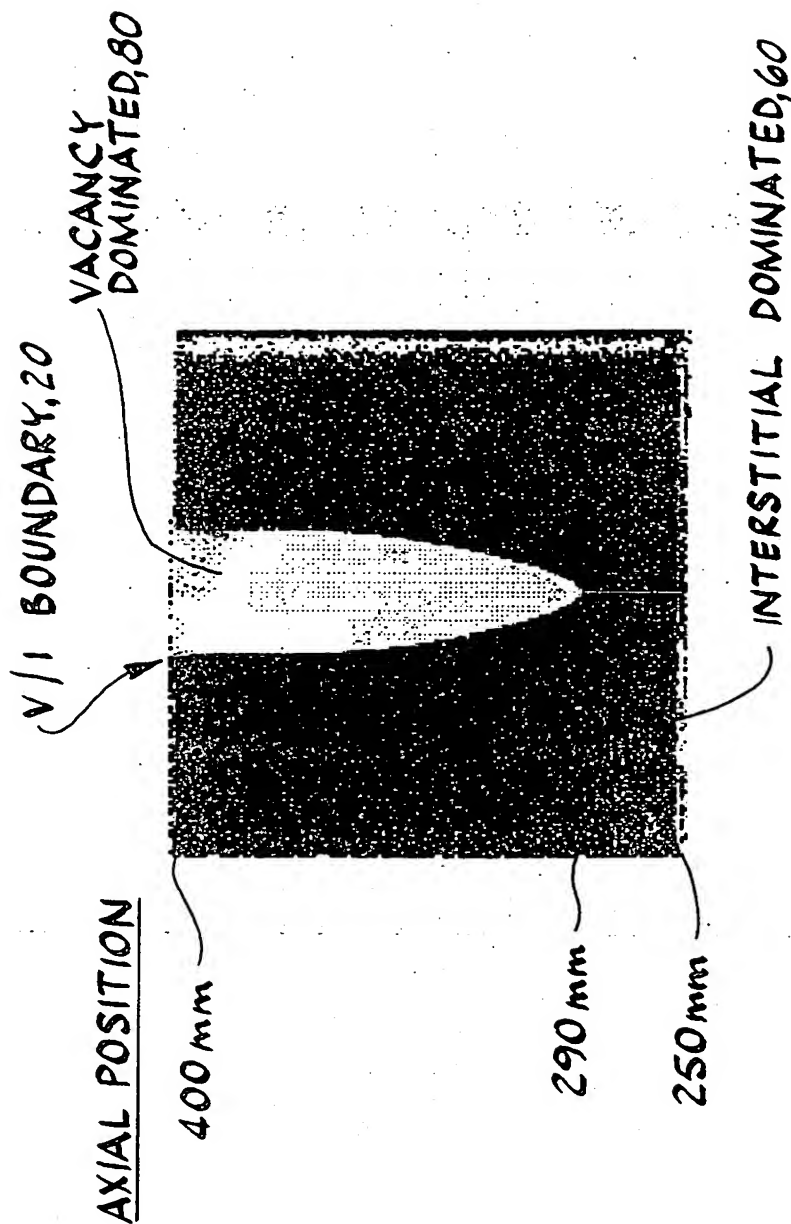
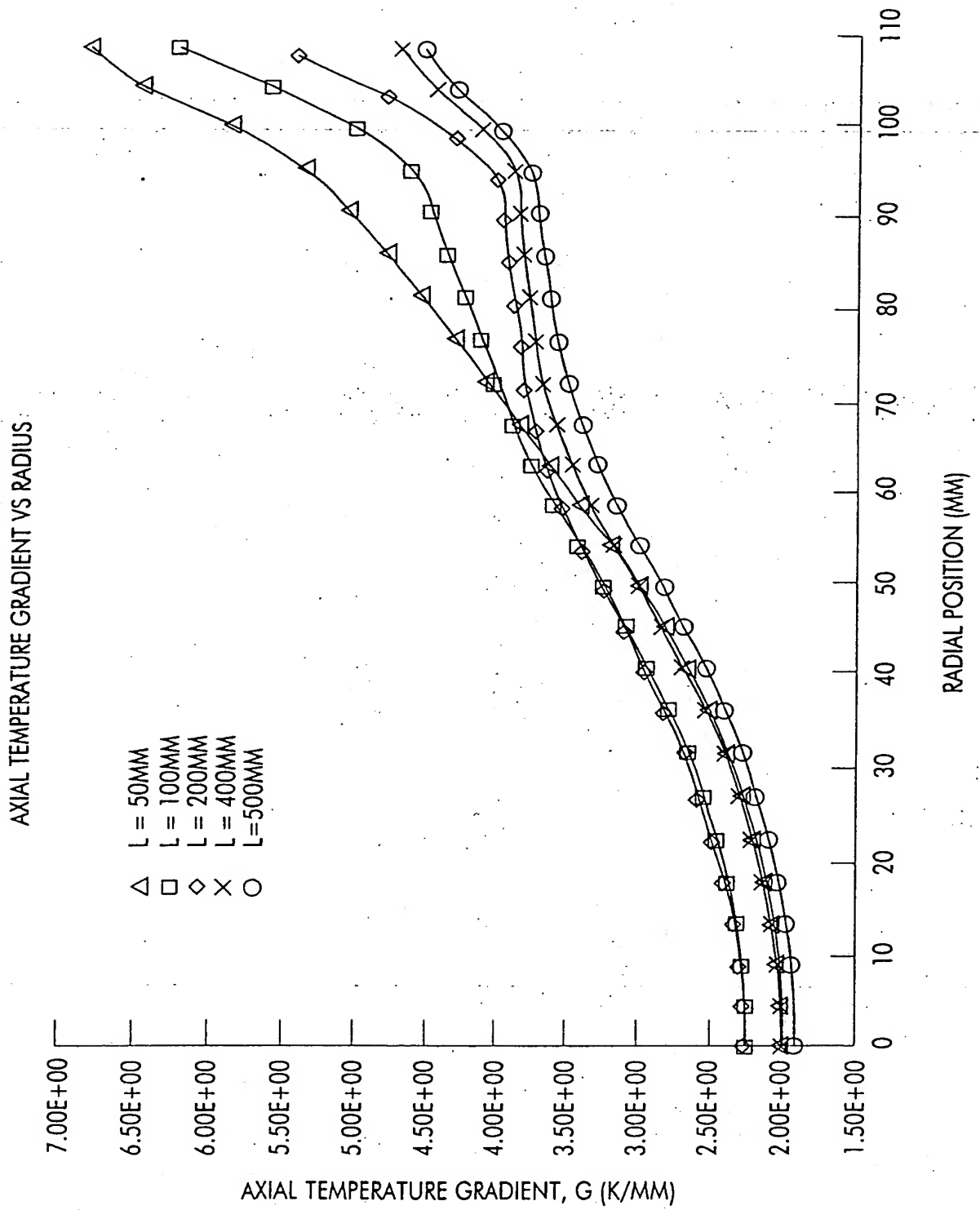


FIG.27



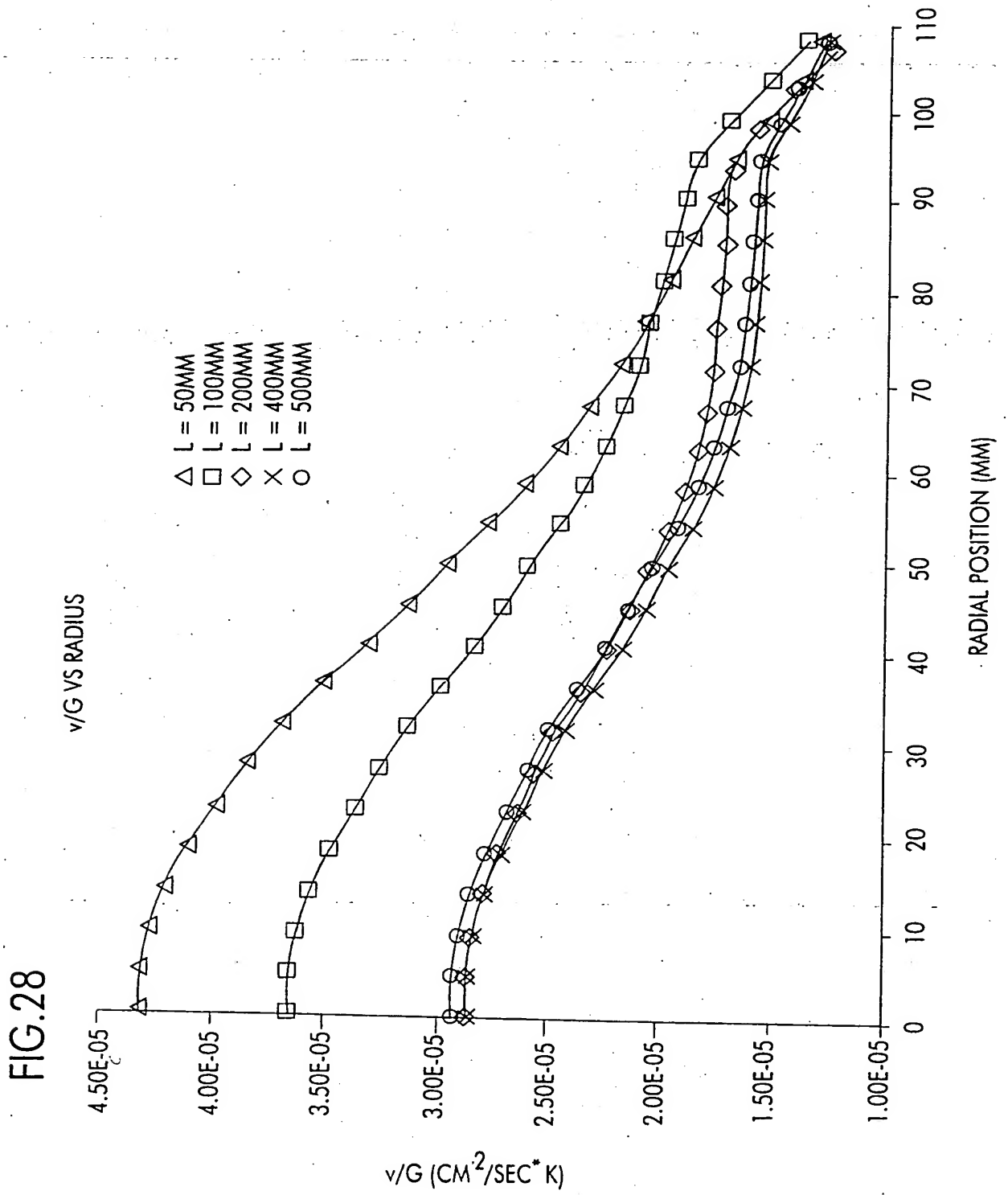


FIG.29

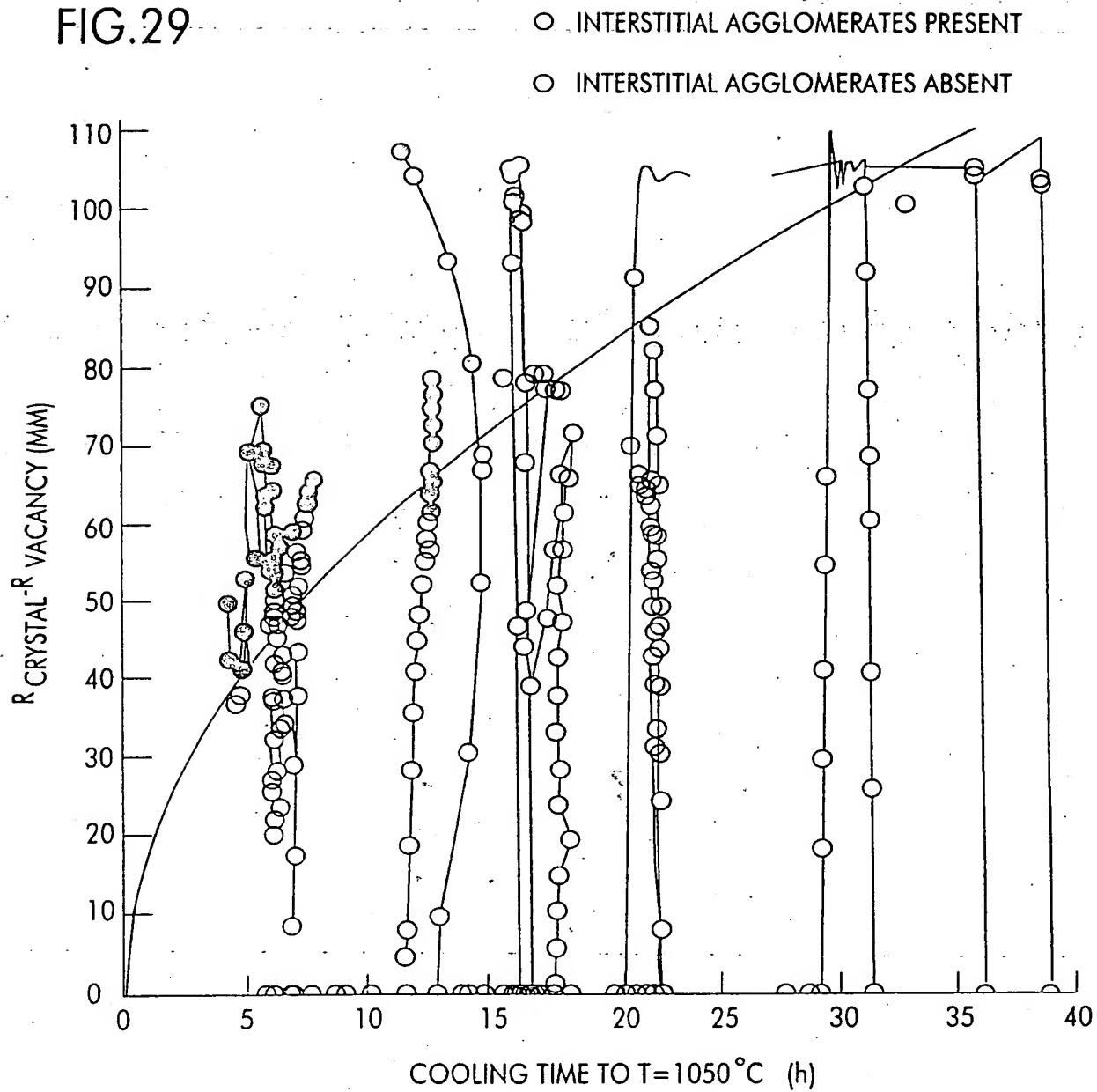


FIG.30

AXIAL
POSITION

235 mm

255 mm

350 mm

V/I BOUNDARY, 20

VACANCY
DOMINATED, 80

PULL RATE

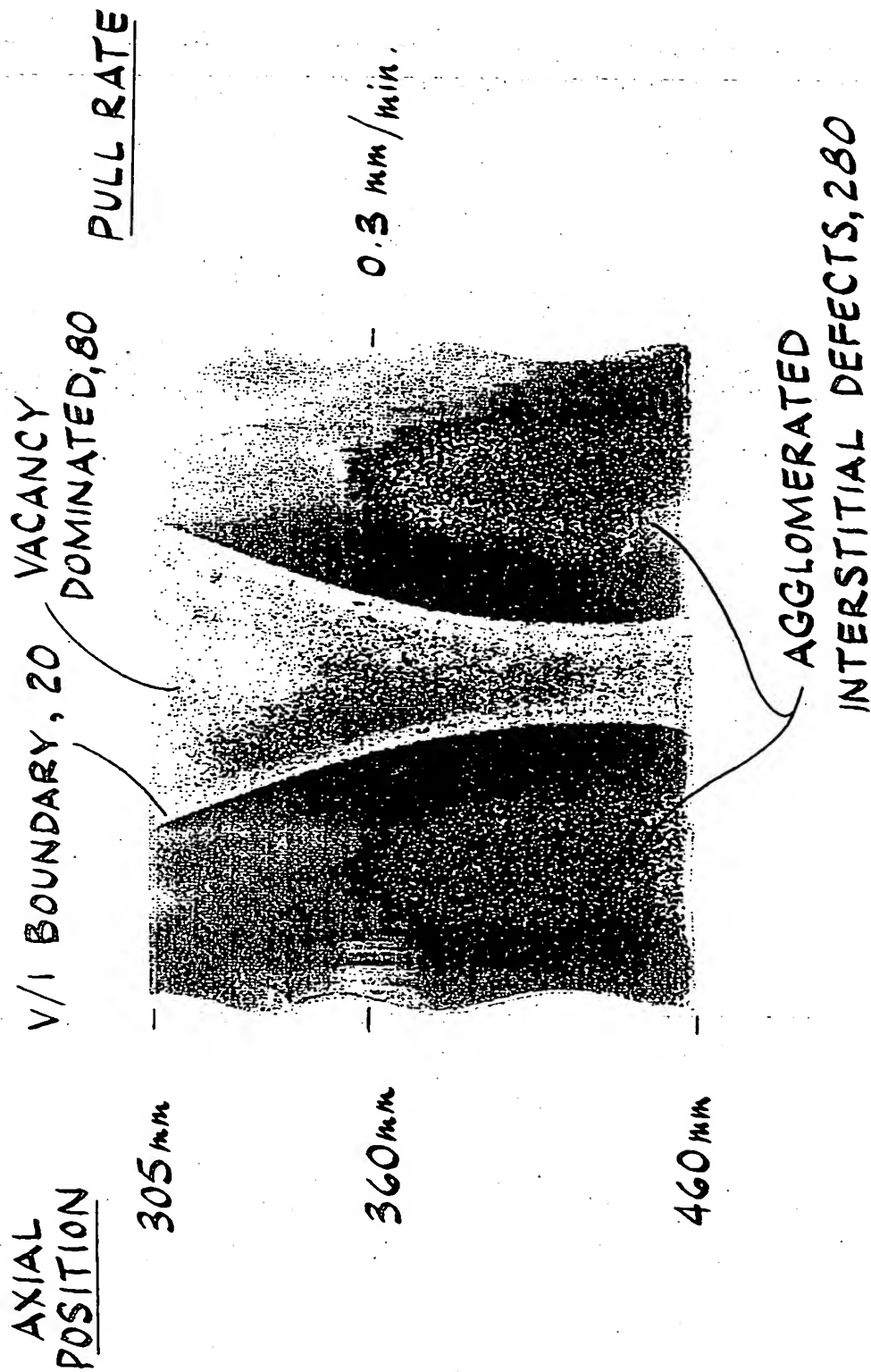
- 0.4 mm/min.



AGGLOMERATED
INTERSTITIAL DEFECTS, 280

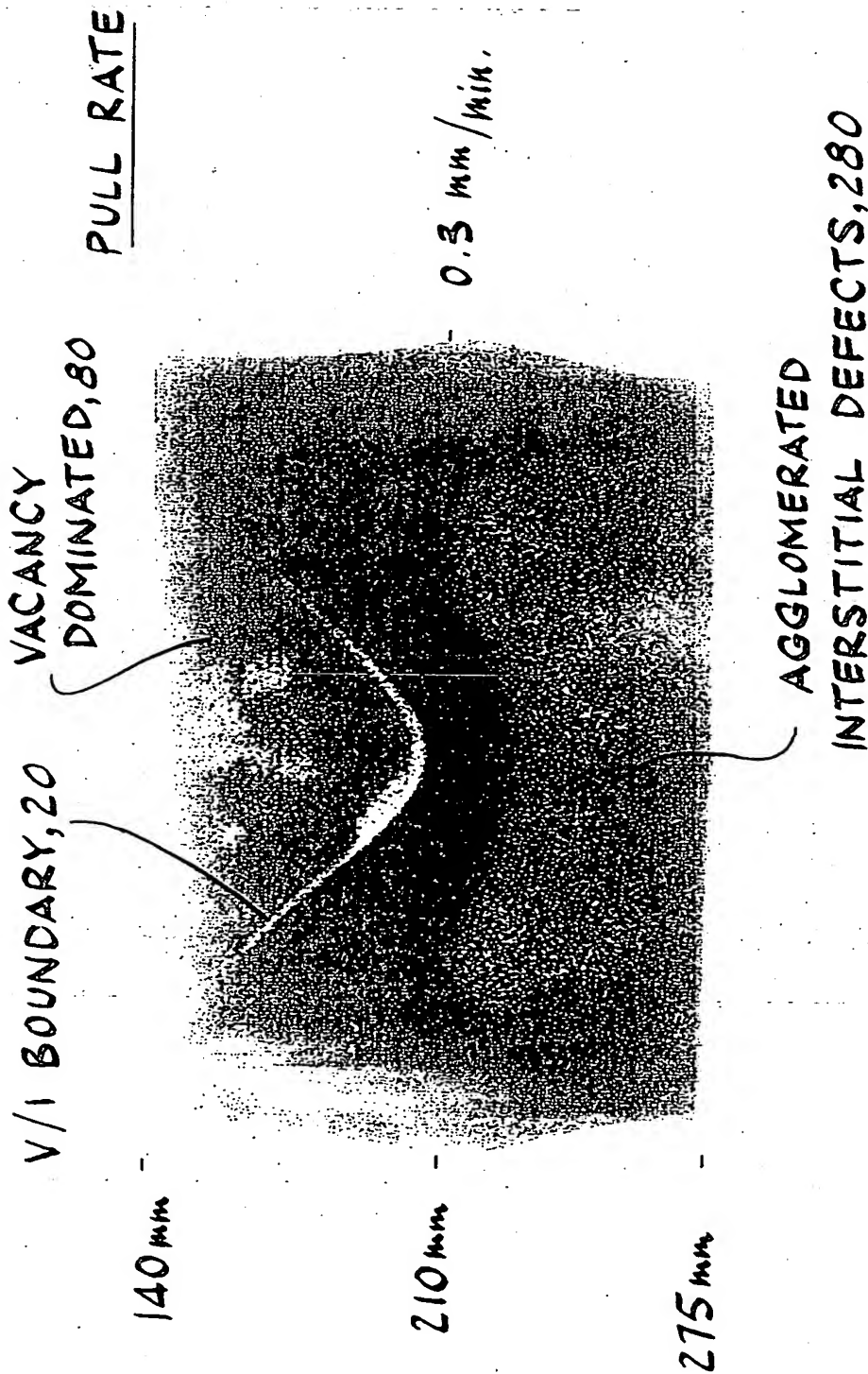
20E010"4808E00T

FIG. 31



20E010" + 808E00T

FIG. 32



20E010" H303E00T

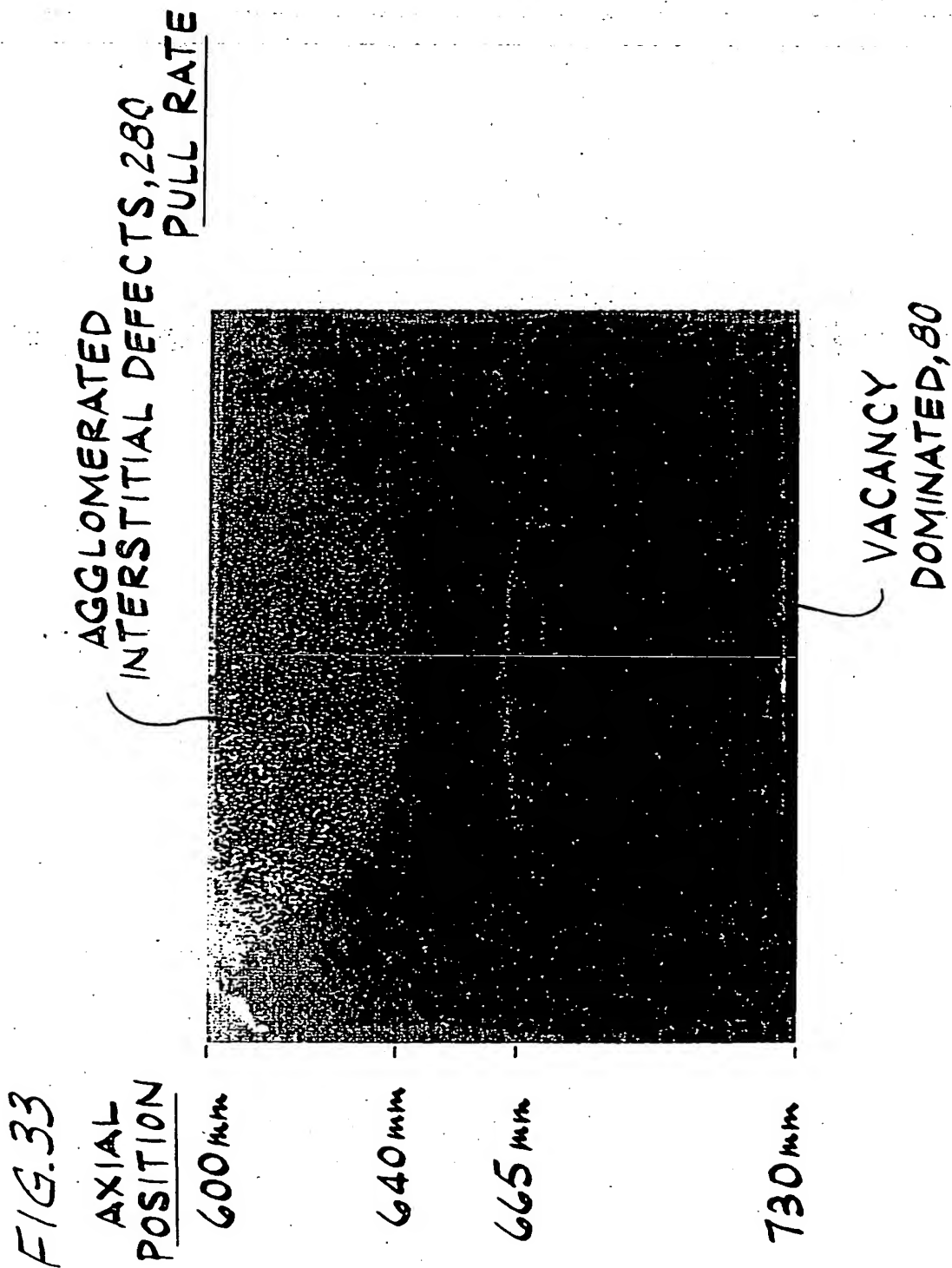


FIG.34

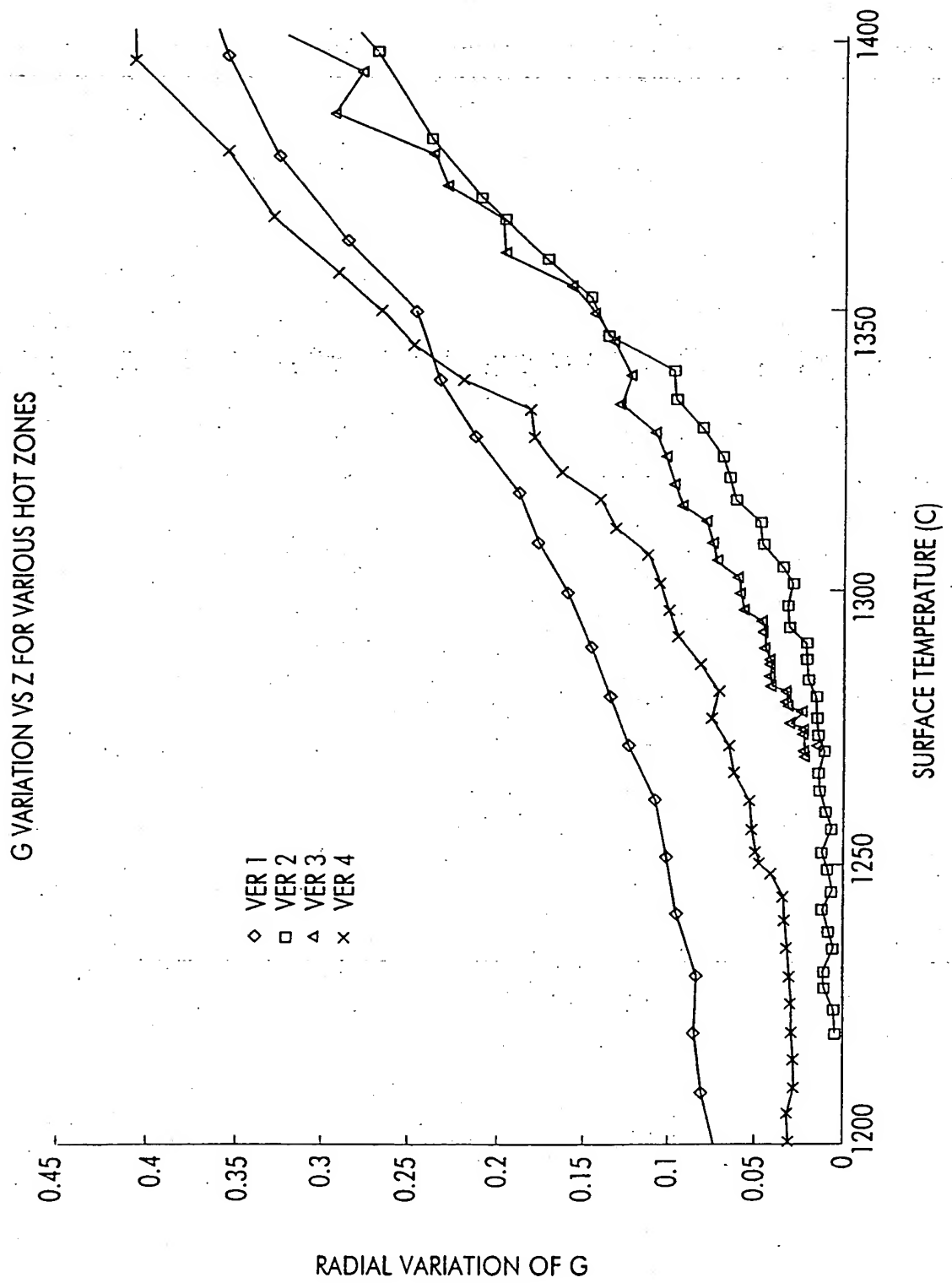


FIG.35

TEMPERATURE PROFILES FOR VARIOUS HOT ZONES

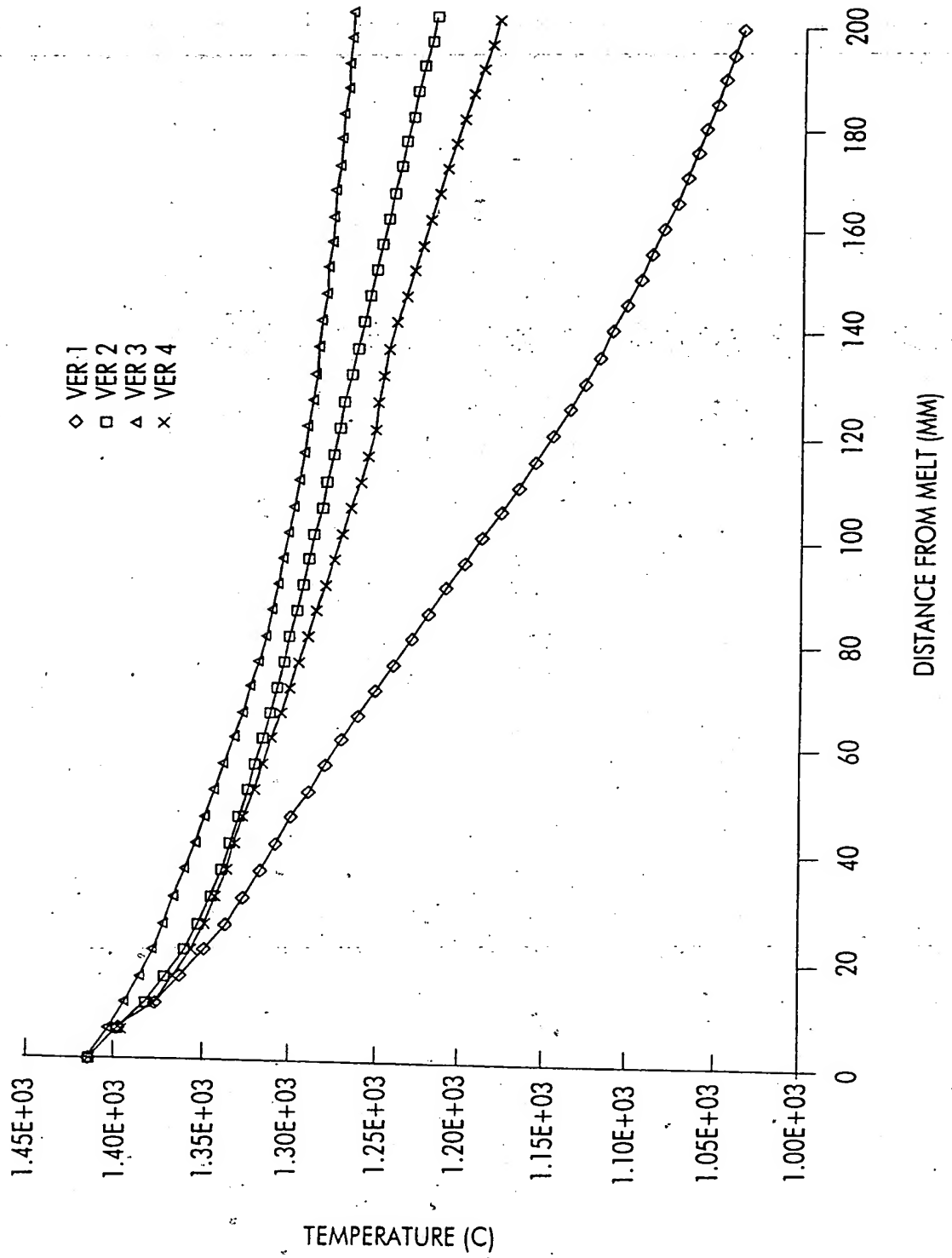


FIG.36

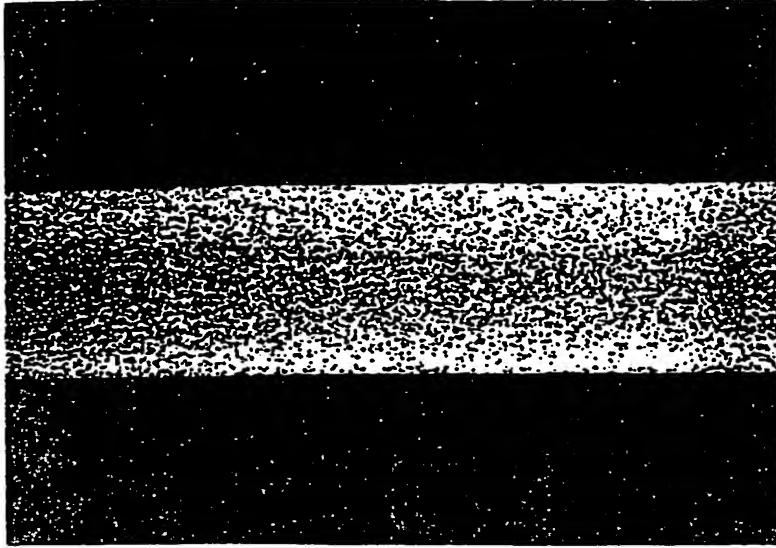
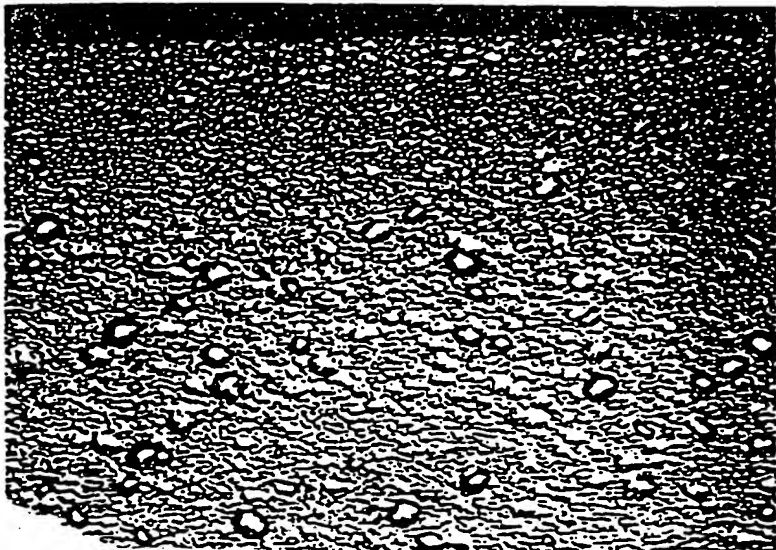


FIG.37



205070-4908007

FIG. 38



FIG. 39

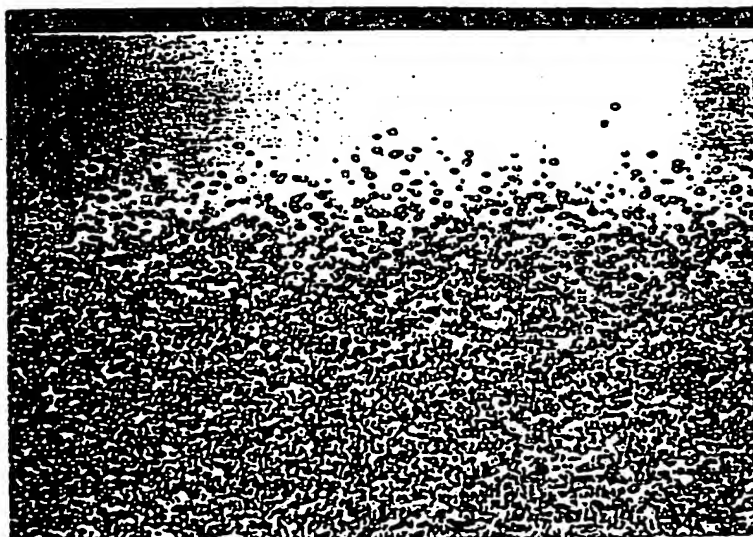


FIG. 40

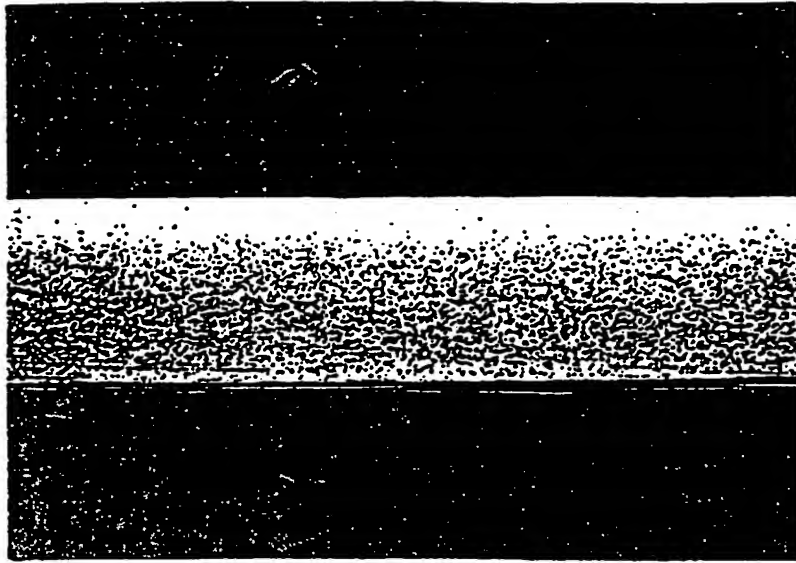
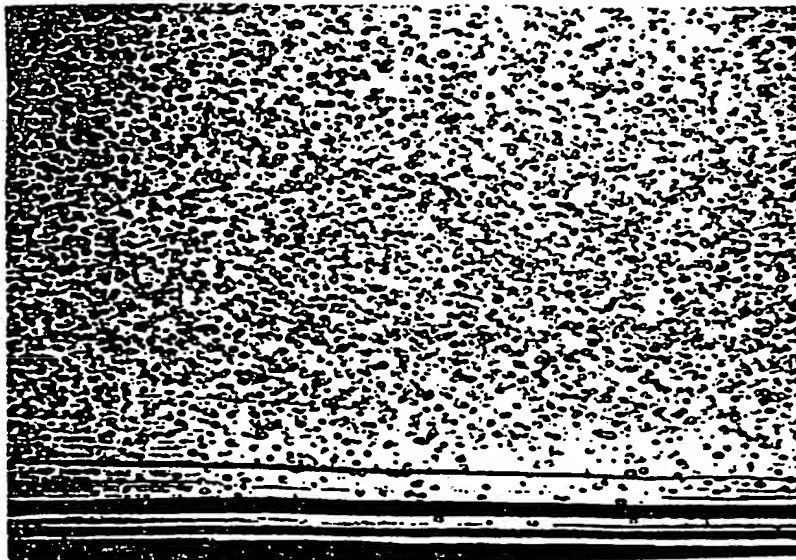


FIG. 41



20250704 080800T